

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:20:33 ; Search time 119 Seconds
(without alignments)
40.615 Million cell updates/sec

Title: US-10-509-620-1

Perfect score: 57

Sequence: 1 YGRRARRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

A Geneseq_21.*

1: Geneseqp1980s.*

2: Geneseqp1990s.*

3: Geneseqp2000s.*

4: Geneseqp2001s.*

5: Geneseqp2002s.*

6: Geneseqp2003as.*

7: Geneseqp2003bs.*

8: Geneseqp2004s.*

9: Geneseqp2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	57	100.0	11	8	ADG12910
2	57	100.0	11	8	ADG12868
3	52	91.2	11	8	ADG12912
4	52	91.2	11	8	ADG12880
5	51	89.5	11	8	ADG12869
6	51	89.5	11	8	ADG12908
7	50	87.7	21	8	ADG12949
8	50	87.7	26	2	AAW76545
9	50	87.7	26	9	ADW71095
10	50	87.7	161	7	ABO81277
11	50	87.7	267	8	ADY11242
12	48	84.2	101	8	ADO40047
13	46	80.7	11	3	AAV25079
14	46	80.7	11	3	AAV93548
15	46	80.7	11	3	AAV93548
16	46	80.7	11	3	AAV93548
17	46	80.7	11	5	AAU05279
18	46	80.7	11	6	ABP69698
19	46	80.7	11	6	ABP69698
20	46	80.7	11	6	ABP69698
21	46	80.7	11	7	ADN60174
22	46	80.7	11	8	ADIS2956
23	46	80.7	11	9	ADZ64546
24	46	80.7	12	2	AAR44186

25	46	80.7	12	2	AAR44187
26	46	80.7	48	7	ABM89109
27	46	80.7	61	8	ABO58258
28	46	80.7	85	4	ABG11374
29	46	80.7	99	3	AAG54627
30	46	80.7	101	9	ADX40349
31	46	80.7	101	9	ADX40300
32	46	80.7	102	7	ADL66509
33	46	80.7	102	7	ADL66520
34	46	80.7	102	7	ADL66568
35	46	80.7	102	7	ADL66541
36	46	80.7	102	7	ADL66521
37	46	80.7	102	7	ADL66522
38	46	80.7	102	7	ADL66590
39	46	80.7	102	7	ADL66543
40	46	80.7	102	7	ADL66569
41	46	80.7	102	7	ADL66570
42	46	80.7	194	4	ABG15399
43	46	80.7	223	8	ADY09558
44	46	80.7	229	8	ADX80250
45	46	80.7	245	8	ADX74313
46	46	80.7	458	7	ABO84245
47	46	80.7	1632	7	ADL66542
48	45	78.9	10	5	AAU78931
49	45	78.9	11	2	AAW50263
50	45	78.9	11	2	AAV05415
51	45	78.9	11	2	AAV25075
52	45	78.9	11	3	AAV27088
53	45	78.9	11	3	AAV09907
54	45	78.9	11	3	AAV93542
55	45	78.9	11	3	AAV71015
56	45	78.9	11	3	AAV35698
57	45	78.9	11	3	AAV03961
58	45	78.9	11	3	AAV29413
59	45	78.9	11	3	AAV03932
60	45	78.9	11	4	AAV71757
61	45	78.9	11	4	AAV71756
62	45	78.9	11	4	AAV60006
63	45	78.9	11	4	AAV05268
64	45	78.9	11	4	AAV02973
65	45	78.9	11	4	AAV03418
66	45	78.9	11	4	AAV03815
67	45	78.9	11	4	AAV98683
68	45	78.9	11	4	AAV73305
69	45	78.9	11	4	AAV70458
70	45	78.9	11	4	AAV68376
71	45	78.9	11	4	AAV65673
72	45	78.9	11	4	AAV12605
73	45	78.9	11	4	AAV67673
74	45	78.9	11	4	AAV03730
75	45	78.9	11	4	AAV50221
76	45	78.9	11	4	AAU09932
77	45	78.9	11	4	AAV12891
78	45	78.9	11	4	AAV13064
79	45	78.9	11	4	AAV69170
80	45	78.9	11	4	AAV70481
81	45	78.9	11	4	AAU09812
82	45	78.9	11	4	AAV04300
83	45	78.9	11	4	AAV12204
84	45	78.9	11	4	AAV69548
85	45	78.9	11	4	AAV85847
86	45	78.9	11	4	AAV82757
87	45	78.9	11	5	AAU76115
88	45	78.9	11	5	AAU77483
89	45	78.9	11	5	ABG78986
90	45	78.9	11	5	AAV18125
91	45	78.9	11	5	ABV74239
92	45	78.9	11	5	ABV74244
93	45	78.9	11	5	AAV23080
94	45	78.9	11	5	ABV82413
95	45	78.9	11	5	ABP51634
96	45	78.9	11	5	AAV20790
97	45	78.9	11	5	AAU75548

Aar44187	Anti-herp
Abm89109	Rice abio
Abos8258	Human gen
Abg11374	Novel hum
Aag54627	Zea maye
Adx40349	HIV Tat p
Adx40300	HIV Tat p
Adl66509	HIV-1 mut
Adl66520	HIV-1 mut
Adl66568	HIV-1 mut
Adl66541	HIV-1 mut
Adl66521	HIV-1 mut
Adl66522	HIV-1 mut
Adl66590	HIV-1 mut
Adl66543	HIV-1 mut
Adl66569	HIV-1 mut
Adl66570	HIV-1 mut
Abg15399	Novel hum
Ady09558	Plant ful
Adx80250	Plant ful
Adx74313	Plant ful
Abos8425	Pseudomon
Adl66542	HIV-1 mut
Aau78931	9 Arginin
Aaw50263	HIV-1 tat
Aay05415	Tat pepti
Aay25075	TAT trans
Aab27088	Beta-cate
Aab09907	HIV tat p
Aay93542	Amino aci
Aay71015	Human imm
Aab35698	Peptide a
Aab03961	Minimal e
Aab29413	HIV TAT t
Aab03932	TAT prote
Aab71757	HIV TAT p
Aab71756	NTR3 deri
Aab60006	Internali
Aae05268	Human imm
Aae02973	Protein t
Aae03418	Human imm
Aae03815	HIV tat p
Aab98683	HIV TAT p
Aab73305	HIV-1 TAT
Aag70458	Human G2
Aag68376	Human Chk
Aag65673	HIV tat p
Aae12605	Human imm
Aab67673	Transduct
Aae03730	Protein t
Aam50221	HIV-1 tat
Aau09932	Human imm
Aae12891	Human imm
Aae13064	Protein t
Aab69170	HIV tat p
Aab70481	HIV TAT p
Aau09812	HIV-1 tat
Aae04300	Human Imm
Aae12204	Membrane
Aab69548	HIV tat p
Aab85847	HIV-1 tat
Aab82757	HIV TAT p
Aau76115	Peptide t
Aau77483	HIV-1 tat
Aag78986	Cell pene
Aae18125	Human imm
Abb74239	HIV TAT f
Abb74244	HIV TAT f
Aab23080	HIV tat p
Abb82413	HIV-1 pep
Abp51634	HIV tat p
Aav20790	Human imm
Aau75548	Human imm

98	45	78.9	11	5	ABB05786	Abb05786 HIV tat r	171	45	78.9	11	7	ADL88643	Adl88643 HIV TAT p
99	45	78.9	11	5	ABB07211	Abb07211 Amino aci	172	45	78.9	11	7	ADN60167	Adn60167 Novel rec
100	45	78.9	11	5	AAU78967	Aau78967 TAT pepti	173	45	78.9	11	8	ADH83322	Adh83322 HIV tat p
101	45	78.9	11	5	AAU77222	Aau77222 HIV tat p	174	45	78.9	11	8	ADF12507	Adf12507 HIV TAT p
102	45	78.9	11	5	AAAM47460	Aam47460 HIV tat p	175	45	78.9	11	8	ADF57558	Adf57558 HIV TAT p
103	45	78.9	11	5	AAAE18343	Aae18343 Human imm	176	45	78.9	11	8	ADG27413	Adg27413 HIV-1 tat
104	45	78.9	11	5	ABB84578	Abb84578 HIV TAT p	177	45	78.9	11	8	ADF77317	Adf77317 HIV tat p
105	45	78.9	11	5	ABG95820	Abg95820 Cell pene	178	45	78.9	11	8	ADG12882	Adg12882 HIV tat p
106	45	78.9	11	5	AAAM48622	Aam48622 Anti-infl	179	45	78.9	11	8	ADG12884	Adg12884 Cytoplasm
107	45	78.9	11	5	AAAM48621	Aam48621 Anti-infl	180	45	78.9	11	8	ADG12870	Adg12870 Cytoplasm
108	45	78.9	11	5	AAAE18833	Aae18833 Protein c	181	45	78.9	11	8	ADG12906	Adg12906 Cytoplasm
109	45	78.9	11	5	AAU79799	Aau79799 Peptide s	182	45	78.9	11	8	ADG74144	Adg74144 HIV TAT p
110	45	78.9	11	5	AAU11033	Aau11033 Human imm	183	45	78.9	11	8	ADG73688	Adg73688 Protein t
111	45	78.9	11	5	AAE21137	Aae21137 HIV Tat p	184	45	78.9	11	8	ADJ45759	Adj45759 HIV TAT p
112	45	78.9	11	5	AAAM48194	Aam48194 HIV Tat p	185	45	78.9	11	8	ADJ93635	Adj93635 Tat-deriv
113	45	78.9	11	5	AAAE16487	Aae16487 Human imm	186	45	78.9	11	8	ABU64425	Abu64425 Peptide c
114	45	78.9	11	6	ADG27654	Adg27654 Human LGR	187	45	78.9	11	8	ADJ58092	Adj58092 HIV TAT p
115	45	78.9	11	6	AAO16343	Aao16343 Human imm	188	45	78.9	11	8	ADJ52951	Adj52951 HIV PTDI
116	45	78.9	11	6	AAE35420	Aae35420 HIV tat p	189	45	78.9	11	8	ADJ78886	Adj78886 Basic res
117	45	78.9	11	6	ABP57917	Abp57917 Human imm	190	45	78.9	11	8	ADK15587	Adk15587 Membrane
118	45	78.9	11	6	ABB9504	Abb9504 Amino aci	191	45	78.9	11	8	ADL70729	Adl70729 Fusion po
119	45	78.9	11	6	ABP71286	Abp71286 TAT-deriv	192	45	78.9	11	8	ADJ95456	Adj95456 HIV TAT p
120	45	78.9	11	6	ABG76123	Abg76123 Tat-deriv	193	45	78.9	11	8	ADM82987	Adm82987 Transcell
121	45	78.9	11	6	ABU09580	Abu09580 Cell perm	194	45	78.9	11	8	ADJ94771	Adj94771 Internall
122	45	78.9	11	6	ABP96989	Abp96989 Anti-infl	195	45	78.9	11	8	ADM68206	Adm68206 Inositol
123	45	78.9	11	6	ABP97352	Abp97352 Tat fragm	196	45	78.9	11	8	ADL99095	Adl99095 CFTR inte
124	45	78.9	11	6	ABP56074	Abp56074 TAT trans	197	45	78.9	11	8	ADM94778	Adm94778 HIV tat p
125	45	78.9	11	6	AAE35355	Aae35355 HIV type	198	45	78.9	11	8	ADM36474	Adm36474 Protein t
126	45	78.9	11	6	AAE33880	Aae33880 Human imm	199	45	78.9	11	8	ADM57316	Adm57316 Modular a
127	45	78.9	11	6	ABG74845	Abg74845 HIV TAT p	200	45	78.9	11	8	ADM57317	Adm57317 Modular a
128	45	78.9	11	6	AAO16688	Aao16688 HIV cell-	201	45	78.9	11	8	ADO26476	Ado26476 HIV type
129	45	78.9	11	6	ABP70229	Abp70229 Membrane	202	45	78.9	11	8	ADM96996	Adm96996 HIV TAT p
130	45	78.9	11	6	ABG72698	Abg72698 HIV tat p	203	45	78.9	11	8	ADN11632	Adn11632 Calcineur
131	45	78.9	11	6	AAO26515	Aao26515 FITC-cons	204	45	78.9	11	8	ADO43337	Ado43337 HIV-1 TAT
132	45	78.9	11	6	AAE33579	Aae33579 Human imm	205	45	78.9	11	8	ADP49502	Adp49502 Human imm
133	45	78.9	11	6	AAE36378	Aae36378 Human imm	206	45	78.9	11	8	ADO71466	Ado71466 HIV-1 TAT
134	45	78.9	11	6	ABP57670	Abp57670 HIV tat r	207	45	78.9	11	8	ADO75012	Ado75012 HIV tat p
135	45	78.9	11	6	ABR61934	Abri61934 Tat pepti	208	45	78.9	11	8	ADQ60189	Adq60189 HIV tat p
136	45	78.9	11	6	ABR61953	Abri61953 Tat pepti	209	45	78.9	11	8	ADQ88636	Adq88636 TAT prote
137	45	78.9	11	6	ADA61897	Ada61897 NFKB esse	210	45	78.9	11	8	ADP95948	Adp95948 HIV-1 TAT
138	45	78.9	11	6	ADA61898	Ada61898 NFKB esse	211	45	78.9	11	8	ADQ60107	Adq60107 TAT-deriv
139	45	78.9	11	6	ADA45194	Ada45194 HIV TAT p	212	45	78.9	11	8	ADQ91934	Adq91934 HIV TAT p
140	45	78.9	11	6	ADA50142	Ada50142 HIV-TAT p	213	45	78.9	11	8	ADSI17640	Adsi17640 Amino aci
141	45	78.9	11	6	ADA61217	Ada61217 HIV tat p	214	45	78.9	11	8	ADR31986	Adr31986 Heat choc
142	45	78.9	11	6	ABR82379	Abri82379 Peptide f	215	45	78.9	11	8	ADS86878	Ads86878 Protein t
143	45	78.9	11	6	ADA37057	Ada37057 Tat prote	216	45	78.9	11	8	ADT89547	Adt89547 Human imm
144	45	78.9	11	7	AAO30117	Aao30117 HIV tat p	217	45	78.9	11	8	ADSI7739	Adsi7739 HIV-Tat (
145	45	78.9	11	7	ADA88841	Ada88841 Antennape	218	45	78.9	11	8	ADS97731	Ads97731 Transport
146	45	78.9	11	7	ABR84578	Abri84578 HIV Tat p	219	45	78.9	11	8	ADS93559	Ads93559 Human ade
147	45	78.9	11	7	AAE38677	Aae38677 HIV Tat d	220	45	78.9	11	8	ADU07070	Adu07070 Fungal gr
148	45	78.9	11	7	ADB90670	Adb90670 Internali	221	45	78.9	11	8	ADU15718	Adu15718 MUC1-PDZ
149	45	78.9	11	7	ADB99525	Adb99525 TAT pepti	222	45	78.9	11	8	ADT25886	Adt25886 Human imm
150	45	78.9	11	7	ABR82753	Abri82753 Amino aci	223	45	78.9	11	8	ADT88926	Adt88926 HIV core
151	45	78.9	11	7	ADC21309	Adc21309 HIV-1 TAT	224	45	78.9	11	8	ADU47374	Adu47374 HIV tat p
152	45	78.9	11	7	ADC21301	Adc21301 HIV-1 TAT	225	45	78.9	11	8	ADU83410	Adu83410 Tat-deriv
153	45	78.9	11	7	ADC35032	Adc35032 HIV Tat-p	226	45	78.9	11	8	ADX56132	Adx56132 Novel rec
154	45	78.9	11	7	ADC42891	Adc42891 HIV tat p	227	45	78.9	11	9	ADV76458	Adv76458 G2-checkp
155	45	78.9	11	7	ADD57130	Add57130 HLA bindi	228	45	78.9	11	9	ADV39063	Adv39063 HIV tat p
156	45	78.9	11	7	ADD21430	Add21430 HIV-1 TAT	229	45	78.9	11	9	ADV95960	Adv95960 TAT prote
157	45	78.9	11	7	ADD26427	Add26427 transmemb	230	45	78.9	11	9	ADW64920	Adw64920 Human imm
158	45	78.9	11	7	ADE36734	Ade36734 Internali	231	45	78.9	11	9	ADW24403	Adw24403 Human imm
159	45	78.9	11	7	ADD90605	Add90605 HIV prote	232	45	78.9	11	9	ADY26664	Ady26664 TAT pepti
160	45	78.9	11	7	ADD90779	Add90779 HIV tat p	233	45	78.9	11	9	ADY26658	Ady26658 TAT pepti
161	45	78.9	11	7	ADF56534	Adf56534 HIV-1 pro	234	45	78.9	11	9	ADX70432	Adx70432 HIV TAT p
162	45	78.9	11	7	ADF88578	Adf88578 Protein c	235	45	78.9	11	9	ADX18043	Adx18043 HIV-1 TAT
163	45	78.9	11	7	ADG44412	Adg44412 Anti-path	236	45	78.9	11	9	ADY49621	Ady49621 HIV-1 Tat
164	45	78.9	11	7	ADG14373	Adg14373 HIV Tat p	237	45	78.9	11	9	ADY38681	Ady38681 Novel pro
165	45	78.9	11	7	ADG17947	Adg17947 FITC cons	238	45	78.9	11	9	ADY58849	Ady58849 HIV TAT p
166	45	78.9	11	7	ADG28005	Adg28005 HIV TAT p	239	45	78.9	11	9	ADY86645	Ady86645 Human imm
167	45	78.9	11	7	ADG73133	Adg73133 HIV TAT p	240	45	78.9	11	9	ADZ14897	Adz14897 HIV tat p
168	45	78.9	11	7	ABW02718	Abw02718 HIV TAT p	241	45	78.9	11	9	ADZ11733	Adz11733 HIV TAT p
169	45	78.9	11	7	ADH78808	Adh78808 Internali	242	45	78.9	11	9	ADZ36535	Adz36535 Tat-deriv
170	45	78.9	11	7	ADL12189	Adl12189 HIV TAT d	243	45	78.9	11	9	ADZ38702	Adz38702 NMDA-medi

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:27:23 ; Search time 19.6667 Seconds
(without alignments)
53.816 Million cell updates/sec

Title: US-10-509-620-1

Perfect score: 57

Sequence: 1 YGRRARRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : PIR_80:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	47	82.5	57	2 A34356	protamine - Japane
2	46	80.7	91	2 A59493	protamine P2 - Sty
3	46	80.7	165	2 A59492	protamine P1 - Sty
4	45	78.9	37	2 S29829	protamine Z3 - sma
5	45	78.9	47	2 F58208	protamine II-5 - p
6	45	78.9	47	2 E58208	protamine II-4 - p
7	45	78.9	71	2 T09384	trans-activating t
8	45	78.9	72	1 TNLJH4	trans-activating t
9	45	78.9	86	1 TNLJZR	trans-activating t
10	45	78.9	86	2 A25700	trans-activating t
11	45	78.9	86	2 JCS591	transactivator pro
12	45	78.9	86	2 S34381	tat protein - huma
13	45	78.9	86	2 S33982	trans-activating t
14	45	78.9	87	2 T01665	tat protein - huma
15	45	78.9	95	1 TNLJ12	trans-activating t
16	45	78.9	101	1 E44001	trans-activating t
17	45	78.9	101	2 T09445	tat protein - huma
18	45	78.9	294	2 E87538	hypothetical prote
19	45	78.9	417	2 E30341	alpha-1-adrenergic
20	45	78.9	517	2 A45121	alpha-1B adrenergi
21	44	77.2	78	2 A40973	spermatid-specific
22	44	77.2	79	2 S40973	spermatid-specific
23	44	77.2	118	2 S56117	spermatid-specific
24	43	75.4	221	2 B40973	spermatid-specific
25	43	75.4	221	2 B42701	splicing factor SF
26	43	75.4	221	2 B42701	PR264 protein - ch
27	43	75.4	1193	2 A86193	hypothetical prote
28	42	73.7	86	1 TNLJND	trans-activating t
29	42	73.7	435	2 E86266	protein F3F19.23 [

30	41	71.9	45	2 C58208	protamine II-2 - p
31	41	71.9	45	2 D58208	protamine II-3 - p
32	41	71.9	45	2 B58208	protamine II-1 - p
33	41	71.9	58	2 S34045	protamine - North
34	41	71.9	58	2 A58208	protamine I-1 - pa
35	41	71.9	62	2 A34326	protamine - chicke
36	41	71.9	234	2 S27956	arginine-rich prot
37	41	71.9	472	2 A36357	homeotic protein C
38	41	71.9	531	2 S09859	hypothetical prote
39	40	70.2	49	2 S02228	protamine - horse
40	40	70.2	49	2 S02007	protamine I - rabb
41	40	70.2	50	1 HSPG	sperm histone - pi
42	40	70.2	50	1 HSSH	sperm histone - sh
43	40	70.2	50	2 S22582	protamine 1 - Sagu
44	40	70.2	50	2 S21672	protamine 1 - pig
45	40	70.2	51	1 HSBOS	sperm histone P1 -
46	40	70.2	51	1 HSMSS1	protamine - mouse
47	40	70.2	51	2 S03997	protamine 1 - rat
48	40	70.2	145	2 T36527	hypothetical prote
49	40	70.2	167	2 E87339	hypothetical prote
50	40	70.2	197	2 S25106	capaid protein - b
51	40	70.2	199	2 S41316	coat protein - cuc
52	40	70.2	234	2 T26560	hypothetical prote
53	40	70.2	515	2 A40491	alpha-1-adrenergic
54	40	70.2	515	2 JC1525	alpha-1B-adrenergi
55	40	70.2	924	2 S34926	hypothetical prote
56	40	70.2	924	2 E87092	probable ribonucle
57	40	70.2	953	2 B70681	probable rne prote
58	40	70.2	2318	2 S45306	notch 3 protein -
59	40	70.2	2321	2 S78549	notch3 protein - h
60	39	68.4	43	2 D58213	protamine III - Am
61	39	68.4	62	2 B58213	protamine I - Amer
62	39	68.4	85	2 A05126	hypothetical prote
63	39	68.4	106	1 G1BEPR	tegument protein -
64	39	68.4	107	2 C86477	protein F1504.29 [
65	39	68.4	113	2 S66936	probable membrane
66	39	68.4	115	2 S28937	protamine 2 precur
67	39	68.4	172	2 F87649	ExBD/TolR family p
68	39	68.4	180	2 B97242	hypothetical prote
69	39	68.4	224	2 F69444	conserved hypothet
70	39	68.4	352	2 G72747	hypothetical prote
71	39	68.4	419	2 T51715	sigma-like factor
72	39	68.4	469	2 T34645	hypothetical prote
73	39	68.4	527	2 D70595	probable ATP-depen
74	39	68.4	632	2 S58152	hypothetical prote
75	39	68.4	840	2 S48975	hypothetical prote
76	39	68.4	973	2 A37522	ribonuclease E, RN
77	39	68.4	975	2 S3121	homeotic protein C
78	39	68.4	977	2 AC2741	ribonuclease E [im
79	39	68.4	1132	2 B82538	kinase-related pro
80	39	68.4	2554	1 TVFF7L	protamine (salmine
81	38	66.7	32	2 B02669	orf B downstream o
82	38	66.7	85	2 H45557	rev protein - huma
83	38	66.7	103	2 S21258	probable nef prote
84	38	66.7	124	1 ASLJP2	trans-regulatory s
85	38	66.7	133	1 F45345	rev protein - fell
86	38	66.7	148	2 J02384	zinc inducible pro
87	38	66.7	221	2 T02086	conserved hypothet
88	38	66.7	229	2 A86944	probable secreted
89	38	66.7	322	2 T36841	homeobox protein H
90	38	66.7	373	2 A47234	syndecan 2 - huma
91	38	66.7	397	2 A33880	hypothetical 67K p
92	38	66.7	616	2 J01441	LRG5 protein - chl
93	38	66.7	640	2 T08179	procollagen C-endo
94	38	66.7	707	2 JC2218	ribonuclease, Rne/
95	38	66.7	898	2 H87481	hypothetical prote
96	38	66.7	900	2 C56842	protamine I - biac
97	37	64.9	41	2 G58208	protamine Z2 - sma
98	37	64.9	46	2 A18865	sperm histone P1 [
99	37	64.9	51	1 HSHUPL	protamine II - Ame
100	37	64.9	56	2 C58213	trans-activating t
101	37	64.9	79	2 FMO010	trans-activating t
102	37	64.9	100	1 TNLJSI	trans-activating t

103	37	64.9	131	2	B87528	transcription regu	176	35	61.4	139	2	S53638	protein kinase clk
104	37	64.9	132	2	S10305	protamine - boll w	177	35	61.4	144	2	F70895	probable PE protei
105	37	64.9	133	1	VKLJCE	trans-regulatory s	178	35	61.4	148	1	Q0B25	BERF3 protein - hu
106	37	64.9	306	2	A83551	still frameshift p	179	35	61.4	173	2	T08011	2S seed storage pr
107	37	64.9	310	2	D70745	hypothetical prote	180	35	61.4	188	2	T08092	hypothetical prote
108	37	64.9	420	2	A45166	protein-lysine 6-o	181	35	61.4	194	2	T29438	hypothetical prote
109	37	64.9	469	2	I37451	H9F-G2 (HFK-2) pro	182	35	61.4	202	2	B45512	cold-regulated pro
110	37	64.9	594	2	I48771	Slp(w7) - mouse (f	183	35	61.4	219	1	TEBRG6	segment protein -
111	37	64.9	602	2	E70773	probable rho prote	184	35	61.4	219	1	TEBEKA	segment protein -
112	37	64.9	604	2	T21624	hypothetical prote	185	35	61.4	220	1	TEBE12	segment protein -
113	37	64.9	747	1	A57107	kinesin-related pr	186	35	61.4	220	2	T42619	hypothetical prote
114	37	64.9	974	2	T30204	pqlZ protein - Str	187	35	61.4	224	2	A72704	U2 snRNP auxiliary
115	37	64.9	1201	2	T31114	transcription-repa	188	35	61.4	240	2	A46179	hypothetical prote
116	37	64.9	1321	2	T30537	adenylate cyclase	189	35	61.4	336	2	T37159	probable transposa
117	37	64.9	1325	2	T25753	hypothetical prote	190	35	61.4	344	2	E70950	minor core protein
118	37	64.9	1325	2	S54784	sex-limited protei	191	35	61.4	368	1	FOADM5	minor core protein
119	37	64.9	1738	1	A24558	complement C4 prec	192	35	61.4	369	1	FOADM2	hypothetical prote
120	37	64.9	2165	2	T21371	hypothetical prote	193	35	61.4	369	2	S76784	GTP-binding protei
121	36	63.2	21	2	FN0082	sperm chromatin pr	194	35	61.4	382	2	A44370	probable phoH like
122	36	63.2	52	2	FN0081	sperm chromatin pr	195	35	61.4	390	2	H72477	hypothetical prote
123	36	63.2	65	1	GACH	protamine - chicke	196	35	61.4	407	2	T46068	hypothetical prote
124	36	63.2	107	2	A29995	protamine P2 precu	197	35	61.4	447	2	F71039	50kD proline rich
125	36	63.2	124	1	VKLJ31	trans-regulatory s	198	35	61.4	456	2	T35474	propionyl-CoA carb
126	36	63.2	126	2	S58321	US9 protein - bovi	199	35	61.4	476	2	JQ1943	protein kinase clk
127	36	63.2	158	2	S35787	hydrogenase matura	200	35	61.4	499	2	S53637	occludin - chicken
128	36	63.2	168	2	A69422	coat protein 22K -	201	35	61.4	504	2	A49467	E2 protein - human
129	36	63.2	200	2	C49600	ribosomal protein	202	35	61.4	506	1	W2ML47	replication initia
130	36	63.2	211	2	S26078	MutT/nudix family	203	35	61.4	513	1	ZABFP4	replication initia
131	36	63.2	250	2	H75504	ribosomal protein	204	35	61.4	522	2	CJ0450	splicing factor-11
132	36	63.2	251	2	T04334	hypothetical prote	205	35	61.4	573	2	C85433	replicating factor-1
133	36	63.2	361	2	A86841	endosperm specific	206	35	61.4	585	2	C70634	probable fad30 pr
134	36	63.2	402	2	T04348	globulin - maize	207	35	61.4	621	2	S28365	gene 1 protein - m
135	36	63.2	407	2	T02258	AtP/GTP-binding pr	208	35	61.4	660	2	S24125	potassium channel
136	36	63.2	425	2	T44592	B. subtilis PBX p	209	35	61.4	675	2	F87022	penicillin-binding
137	36	63.2	444	2	AB1591	small nuclear ribo	210	35	61.4	755	2	S42462	structural polypro
138	36	63.2	462	2	A57120	hypothetical prote	211	35	61.4	779	2	T34390	hypothetical prote
139	36	63.2	505	2	F71404	hypothetical prote	212	35	61.4	819	2	T22152	hypothetical prote
140	36	63.2	525	2	T48824	hypothetical prote	213	35	61.4	886	2	S07132	probable leucyl-tr
141	36	63.2	583	2	T02045	kinase associated	214	35	61.4	959	2	H72699	hypothetical prote
142	36	63.2	770	2	G88445	penicillin-binding	215	35	61.4	992	2	A31666	hypothetical membr
143	36	63.2	885	2	S76357	ribonuclease E / z	216	35	61.4	1001	2	T50914	nuclear antigen EB
144	36	63.2	891	2	AC3384	glycoprotein GI pr	217	35	61.4	1069	2	S27922	transcription-repa
145	36	63.2	928	1	VGBEBG	probable nuclear a	218	35	61.4	1148	2	D83270	probable myb-relat
146	36	63.2	1733	1	B45344	hypothetical prote	219	35	61.4	1297	2	T52065	natural killer cel
147	36	63.2	1958	2	B40505	protamine Ia - rai	220	35	61.4	1403	1	A47328	hypothetical prote
148	35	61.4	30	1	IRTRC2	protamine - rainbo	221	35	61.4	1483	2	E86143	hypothetical prote
149	35	61.4	31	2	I51349	protamine TP17 - r	222	35	61.4	2295	2	C88369	probable fad30 pr
150	35	61.4	33	2	C21211	protamine TP16 - r	223	35	61.4	2594	2	A35774	gene 1 protein - m
151	35	61.4	33	2	C21211	protamine - rainbo	224	34.5	60.5	110	2	F75034	potassium channel
152	35	61.4	33	2	T01070	protamine II - bla	225	34.5	60.5	144	1	HSURB1	penicillin-binding
153	35	61.4	41	2	H58208	protamine I - guin	226	34	59.6	30	1	CLHR2A	structural polypro
154	35	61.4	48	2	S29973	protamine St2b - h	227	34	59.6	30	1	CLHR2	hypothetical prote
155	35	61.4	58	2	S10755	protamine P1 - duc	228	34	59.6	30	1	IRTR4	hypothetical prote
156	35	61.4	61	2	S39425	protamine St2a - h	229	34	59.6	30	1	IRTR78	hypothetical prote
157	35	61.4	62	2	S10754	protamine P1 - Aus	230	34	59.6	31	1	CLHRZ	probable leucyl-tr
158	35	61.4	69	2	S39424	nuclear basic prot	231	34	59.6	31	1	CLHR2A	hypothetical prote
159	35	61.4	79	2	S65036	basic nuclear prot	232	34	59.6	32	1	IRTR2	hypothetical prote
160	35	61.4	79	2	JH0404	spermatid protei	233	34	59.6	32	1	Y2PK1	late L2 mu core pr
161	35	61.4	87	2	S00180	trans-regulatory s	234	34	59.6	33	1	IRTR1A	conserved hypothet
162	35	61.4	90	1	VKLJBR	variant surface gl	235	34	59.6	33	1	IRTR1B	trans-regulatory s
163	35	61.4	90	2	B22986	hypothetical ORF-1	236	34	59.6	70	2	AB2799	trans-regulatory s
164	35	61.4	99	2	A22848	trans-regulatory s	237	34	59.6	80	1	WNADH2	trans-regulatory s
165	35	61.4	115	1	VKLJND	trans-regulatory s	238	34	59.6	92	2	S13132	trans-regulatory s
166	35	61.4	116	1	VKLJH3	trans-regulatory s	239	34	59.6	102	2	D69218	trans-regulatory s
167	35	61.4	116	1	T09447	rev protein - huma	240	34	59.6	103	1	VKLJGG	trans-regulatory s
168	35	61.4	116	2	JC4968	rev protein - huma	241	34	59.6	103	2	S33336	trans-regulatory s
169	35	61.4	116	2	S33983	rev protein - synt	242	34	59.6	104	2	S53118	trans-regulatory s
170	35	61.4	116	4	S14607	rev protein - huma	243	34	59.6	114	1	Q4AD22	trans-regulatory s
171	35	61.4	117	2	T01666	rev protein - huma	244	34	59.6	123	2	E72680	trans-regulatory s
172	35	61.4	118	2	S54382	trans-activating t	245	34	59.6	125	2	C86490	trans-regulatory s
173	35	61.4	130	1	TNLJGG	85K major surface	246	34	59.6	133	2	A45075	trans-regulatory s
174	35	61.4	139	2	A24154		247	34	59.6	133	2	A41788	trans-regulatory s
175	35	61.4					248	34	59.6				

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:20:33 ; Search time 123.667 Seconds
(without alignments)
62.756 Million cell updates/sec

Title: US-10-509-620-1

Perfect score: 57

Sequence: 1 YGRARRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

1: UniProt_05.80.*

2: uniprot_sprot.*

3: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	89.5	228	2	Q4S2A9 TETNG
2	50	87.7	194	2	Q7SLY0 ORISA
3	49	86.0	72	2	Q6GX78 SHIV1
4	49	86.0	72	2	Q6GX78 SHIV1
5	49	86.0	712	2	Q9DUC1 9VIRU
6	48	84.2	613	2	Q4LQ23 9BURK
7	47	82.5	56	1	KSP1 CORJA
8	47	82.5	101	2	Q7IAY8 SHIV1
9	46	80.7	71	2	Q8ATW5 SHIV1
10	46	80.7	91	2	P84499 STYPL
11	46	80.7	95	2	Q7SAX9 NEUCR
12	46	80.7	101	2	Q93199 SHIV1
13	46	80.7	101	2	Q8UTP7 SHIV1
14	46	80.7	165	2	P84501 STYELA
15	46	80.7	187	2	Q7YX77 9ASCI
16	46	80.7	732	2	Q9DUC7 9VIRU
17	45	78.9	37	1	PR23 SCVCA
18	45	78.9	47	2	Q7LZA7 9SAUR
19	45	78.9	47	2	Q7LZA9 9SAUR
20	45	78.9	58	1	TAT HV1B5
21	45	78.9	64	2	Q8V7E9 9VIRU
22	45	78.9	64	2	Q6QAV2 SHIV1
23	45	78.9	65	2	Q75540 SHIV1
24	45	78.9	65	2	Q75544 SHIV1
25	45	78.9	68	2	Q6QAV4 SHIV1
26	45	78.9	70	2	Q66MQ1 SHIV1
27	45	78.9	71	2	Q40224 SHIV1
28	45	78.9	71	2	O40225 SHIV1
29	45	78.9	71	2	O40226 SHIV1
30	45	78.9	71	2	O40227 SHIV1
31	45	78.9	71	2	O40228 SHIV1

32	45	78.9	71	2	O40231 SHIV1	O40231 human immun
33	45	78.9	71	2	O40232 SHIV1	O40232 human immun
34	45	78.9	71	2	O40233 SHIV1	O40233 human immun
35	45	78.9	71	2	O40234 SHIV1	O40234 human immun
36	45	78.9	71	2	Q58PY1 SHIV1	Q58PY1 human immun
37	45	78.9	71	2	Q58Q03 SHIV1	Q58Q03 human immun
38	45	78.9	71	2	Q58Q10 SHIV1	Q58Q10 human immun
39	45	78.9	71	2	Q58Q64 SHIV1	Q58Q64 human immun
40	45	78.9	71	2	Q58Q69 SHIV1	Q58Q69 human immun
41	45	78.9	71	2	Q5G785 SHIV1	Q5G785 human immun
42	45	78.9	71	2	Q5UG43 SHIV1	Q5UG43 human immun
43	45	78.9	71	2	Q5UG44 SHIV1	Q5UG44 human immun
44	45	78.9	71	2	Q5UG45 SHIV1	Q5UG45 human immun
45	45	78.9	71	2	Q5UG46 SHIV1	Q5UG46 human immun
46	45	78.9	71	2	Q5UG47 SHIV1	Q5UG47 human immun
47	45	78.9	71	2	Q5UG48 SHIV1	Q5UG48 human immun
48	45	78.9	71	2	Q5UG52 SHIV1	Q5UG52 human immun
49	45	78.9	71	2	Q5UG53 SHIV1	Q5UG53 human immun
50	45	78.9	71	2	Q5UG54 SHIV1	Q5UG54 human immun
51	45	78.9	71	2	Q5UG55 SHIV1	Q5UG55 human immun
52	45	78.9	71	2	Q5UG56 SHIV1	Q5UG56 human immun
53	45	78.9	71	2	Q5UG57 SHIV1	Q5UG57 human immun
54	45	78.9	71	2	Q5UG58 SHIV1	Q5UG58 human immun
55	45	78.9	71	2	Q5UG59 SHIV1	Q5UG59 human immun
56	45	78.9	71	2	Q5UG60 SHIV1	Q5UG60 human immun
57	45	78.9	71	2	Q5UG61 SHIV1	Q5UG61 human immun
58	45	78.9	71	2	Q5UG62 SHIV1	Q5UG62 human immun
59	45	78.9	71	2	Q5UG64 SHIV1	Q5UG64 human immun
60	45	78.9	71	2	Q5UG65 SHIV1	Q5UG65 human immun
61	45	78.9	71	2	Q5UG66 SHIV1	Q5UG66 human immun
62	45	78.9	71	2	Q5UG67 SHIV1	Q5UG67 human immun
63	45	78.9	71	2	Q5UG68 SHIV1	Q5UG68 human immun
64	45	78.9	71	2	Q5UG71 SHIV1	Q5UG71 human immun
65	45	78.9	71	2	Q5UG72 SHIV1	Q5UG72 human immun
66	45	78.9	71	2	Q5UG73 SHIV1	Q5UG73 human immun
67	45	78.9	71	2	Q5UG74 SHIV1	Q5UG74 human immun
68	45	78.9	71	2	Q5UG75 SHIV1	Q5UG75 human immun
69	45	78.9	71	2	Q5UG76 SHIV1	Q5UG76 human immun
70	45	78.9	71	2	Q5UG77 SHIV1	Q5UG77 human immun
71	45	78.9	71	2	Q5UG78 SHIV1	Q5UG78 human immun
72	45	78.9	71	2	Q5UG79 SHIV1	Q5UG79 human immun
73	45	78.9	71	2	Q5UG80 SHIV1	Q5UG80 human immun
74	45	78.9	71	2	Q5UG81 SHIV1	Q5UG81 human immun
75	45	78.9	71	2	Q5UG82 SHIV1	Q5UG82 human immun
76	45	78.9	71	2	Q5UG84 SHIV1	Q5UG84 human immun
77	45	78.9	71	2	Q5UG85 SHIV1	Q5UG85 human immun
78	45	78.9	71	2	Q5UG86 SHIV1	Q5UG86 human immun
79	45	78.9	71	2	Q5UG87 SHIV1	Q5UG87 human immun
80	45	78.9	71	2	Q5UG88 SHIV1	Q5UG88 human immun
81	45	78.9	71	2	Q5UG89 SHIV1	Q5UG89 human immun
82	45	78.9	71	2	Q5UG90 SHIV1	Q5UG90 human immun
83	45	78.9	71	2	Q5UG91 SHIV1	Q5UG91 human immun
84	45	78.9	71	2	Q5UG92 SHIV1	Q5UG92 human immun
85	45	78.9	71	2	Q5UG93 SHIV1	Q5UG93 human immun
86	45	78.9	71	2	Q5UG94 SHIV1	Q5UG94 human immun
87	45	78.9	71	2	Q5UG95 SHIV1	Q5UG95 human immun
88	45	78.9	71	2	Q5UG96 SHIV1	Q5UG96 human immun
89	45	78.9	71	2	Q5UG98 SHIV1	Q5UG98 human immun
90	45	78.9	71	2	Q5UG99 SHIV1	Q5UG99 human immun
91	45	78.9	71	2	Q5UGA0 SHIV1	Q5UGA0 human immun
92	45	78.9	71	2	Q5UGA1 SHIV1	Q5UGA1 human immun
93	45	78.9	71	2	Q5UGA2 SHIV1	Q5UGA2 human immun
94	45	78.9	71	2	Q5UGA3 SHIV1	Q5UGA3 human immun
95	45	78.9	71	2	Q5UGA4 SHIV1	Q5UGA4 human immun
96	45	78.9	71	2	Q5UGA5 SHIV1	Q5UGA5 human immun
97	45	78.9	71	2	Q5UGA6 SHIV1	Q5UGA6 human immun
98	45	78.9	71	2	Q5UGA8 SHIV1	Q5UGA8 human immun
99	45	78.9	71	2	Q5UGA9 SHIV1	Q5UGA9 human immun
100	45	78.9	71	2	Q5UGB0 SHIV1	Q5UGB0 human immun
101	45	78.9	71	2	Q5UGB1 SHIV1	Q5UGB1 human immun
102	45	78.9	71	2	Q5UGB2 SHIV1	Q5UGB2 human immun
103	45	78.9	71	2	Q5UGB3 SHIV1	Q5UGB3 human immun
104	45	78.9	71	2	Q5UGB4 SHIV1	Q5UGB4 human immun

105	45	78.9	71	2	Q5UGB5_9H1V1	Q5ugb5	human	immun	Q66ms5_9H1V1	71	2	Q66MS5_9H1V1	45	78.9	71	2	Q66MS5_9H1V1	Q66ms5	human	immun
106	45	78.9	71	2	Q5UGB6_9H1V1	Q5ugb6	human	immun	Q66ms7_9H1V1	71	2	Q66MS7_9H1V1	45	78.9	71	2	Q66MS7_9H1V1	Q66ms7	human	immun
107	45	78.9	71	2	Q5UGB7_9H1V1	Q5ugb7	human	immun	Q66ms9_9H1V1	71	2	Q66MS9_9H1V1	45	78.9	71	2	Q66MS9_9H1V1	Q66ms9	human	immun
108	45	78.9	71	2	Q5UGB8_9H1V1	Q5ugb8	human	immun	Q66mt1_9H1V1	71	2	Q66MT1_9H1V1	45	78.9	71	2	Q66MT1_9H1V1	Q66mt1	human	immun
109	45	78.9	71	2	Q5UGB9_9H1V1	Q5ugb9	human	immun	Q71875_9H1V1	71	2	Q71875_9H1V1	45	78.9	71	2	Q71875_9H1V1	Q71875	human	immun
110	45	78.9	71	2	Q5UGC0_9H1V1	Q5ugc0	human	immun	Q71886_9H1V1	71	2	Q71886_9H1V1	45	78.9	71	2	Q71886_9H1V1	Q71886	human	immun
111	45	78.9	71	2	Q5UGC1_9H1V1	Q5ugc1	human	immun	Q71891_9H1V1	71	2	Q71891_9H1V1	45	78.9	71	2	Q71891_9H1V1	Q71891	human	immun
112	45	78.9	71	2	Q5UGC2_9H1V1	Q5ugc2	human	immun	Q71898_9H1V1	71	2	Q71898_9H1V1	45	78.9	71	2	Q71898_9H1V1	Q71898	human	immun
113	45	78.9	71	2	Q5UGC3_9H1V1	Q5ugc3	human	immun	Q71905_9H1V1	71	2	Q71905_9H1V1	45	78.9	71	2	Q71905_9H1V1	Q71905	human	immun
114	45	78.9	71	2	Q5UGC4_9H1V1	Q5ugc4	human	immun	Q71912_9H1V1	71	2	Q71912_9H1V1	45	78.9	71	2	Q71912_9H1V1	Q71912	human	immun
115	45	78.9	71	2	Q5UGC5_9H1V1	Q5ugc5	human	immun	Q71919_9H1V1	71	2	Q71919_9H1V1	45	78.9	71	2	Q71919_9H1V1	Q71919	human	immun
116	45	78.9	71	2	Q5UGC6_9H1V1	Q5ugc6	human	immun	Q71932_9H1V1	71	2	Q71932_9H1V1	45	78.9	71	2	Q71932_9H1V1	Q71932	human	immun
117	45	78.9	71	2	Q5UGC7_9H1V1	Q5ugc7	human	immun	Q71939_9H1V1	71	2	Q71939_9H1V1	45	78.9	71	2	Q71939_9H1V1	Q71939	human	immun
118	45	78.9	71	2	Q5UGC8_9H1V1	Q5ugc8	human	immun	Q71945_9H1V1	71	2	Q71945_9H1V1	45	78.9	71	2	Q71945_9H1V1	Q71945	human	immun
119	45	78.9	71	2	Q5UGD0_9H1V1	Q5ugd0	human	immun	Q71968_9H1V1	71	2	Q71968_9H1V1	45	78.9	71	2	Q71968_9H1V1	Q71968	human	immun
120	45	78.9	71	2	Q5UGD1_9H1V1	Q5ugd1	human	immun	Q71974_9H1V1	71	2	Q71974_9H1V1	45	78.9	71	2	Q71974_9H1V1	Q71974	human	immun
121	45	78.9	71	2	Q5UGD2_9H1V1	Q5ugd2	human	immun	Q71980_9H1V1	71	2	Q71980_9H1V1	45	78.9	71	2	Q71980_9H1V1	Q71980	human	immun
122	45	78.9	71	2	Q5UGD3_9H1V1	Q5ugd3	human	immun	Q71987_9H1V1	71	2	Q71987_9H1V1	45	78.9	71	2	Q71987_9H1V1	Q71987	human	immun
123	45	78.9	71	2	Q5UGD4_9H1V1	Q5ugd4	human	immun	Q71993_9H1V1	71	2	Q71993_9H1V1	45	78.9	71	2	Q71993_9H1V1	Q71993	human	immun
124	45	78.9	71	2	Q5UGD5_9H1V1	Q5ugd5	human	immun	Q72000_9H1V1	71	2	Q72000_9H1V1	45	78.9	71	2	Q72000_9H1V1	Q72000	human	immun
125	45	78.9	71	2	Q5UGD6_9H1V1	Q5ugd6	human	immun	Q72005_9H1V1	71	2	Q72005_9H1V1	45	78.9	71	2	Q72005_9H1V1	Q72005	human	immun
126	45	78.9	71	2	Q5UGD7_9H1V1	Q5ugd7	human	immun	Q86006_9H1V1	71	2	Q86006_9H1V1	45	78.9	71	2	Q86006_9H1V1	Q86006	human	immun
127	45	78.9	71	2	Q5UGD8_9H1V1	Q5ugd8	human	immun	Q88462_9H1V1	71	2	Q88462_9H1V1	45	78.9	71	2	Q88462_9H1V1	Q88462	human	immun
128	45	78.9	71	2	Q5UGD9_9H1V1	Q5ugd9	human	immun	Q8a1k0_9H1V1	71	2	Q8a1K0_9H1V1	45	78.9	71	2	Q8a1K0_9H1V1	Q8a1k0	human	immun
129	45	78.9	71	2	Q5UGEO_9H1V1	Q5uge0	human	immun	Q8a1k1_9H1V1	71	2	Q8a1K1_9H1V1	45	78.9	71	2	Q8a1K1_9H1V1	Q8a1k1	human	immun
130	45	78.9	71	2	Q5UGEL_9H1V1	Q5uge1	human	immun	Q8a1k2_9H1V1	71	2	Q8a1K2_9H1V1	45	78.9	71	2	Q8a1K2_9H1V1	Q8a1k2	human	immun
131	45	78.9	71	2	Q5UGER_9H1V1	Q5uge2	human	immun	Q8a1k3_9H1V1	71	2	Q8a1K3_9H1V1	45	78.9	71	2	Q8a1K3_9H1V1	Q8a1k3	human	immun
132	45	78.9	71	2	Q5UGES_9H1V1	Q5uge3	human	immun	Q8a1k4_9H1V1	71	2	Q8a1K4_9H1V1	45	78.9	71	2	Q8a1K4_9H1V1	Q8a1k4	human	immun
133	45	78.9	71	2	Q5UGEB_9H1V1	Q5uge4	human	immun	Q8a1k5_9H1V1	71	2	Q8a1K5_9H1V1	45	78.9	71	2	Q8a1K5_9H1V1	Q8a1k5	human	immun
134	45	78.9	71	2	Q5UGES5_9H1V1	Q5uge5	human	immun	Q8a1k6_9H1V1	71	2	Q8a1K6_9H1V1	45	78.9	71	2	Q8a1K6_9H1V1	Q8a1k6	human	immun
135	45	78.9	71	2	Q5UGEB6_9H1V1	Q5uge6	human	immun	Q8a1k7_9H1V1	71	2	Q8a1K7_9H1V1	45	78.9	71	2	Q8a1K7_9H1V1	Q8a1k7	human	immun
136	45	78.9	71	2	Q5UGER7_9H1V1	Q5uge7	human	immun	Q8a1k8_9H1V1	71	2	Q8a1K8_9H1V1	45	78.9	71	2	Q8a1K8_9H1V1	Q8a1k8	human	immun
137	45	78.9	71	2	Q5UGER8_9H1V1	Q5uge8	human	immun	Q8a1l2_9H1V1	71	2	Q8a1L2_9H1V1	45	78.9	71	2	Q8a1L2_9H1V1	Q8a1l2	human	immun
138	45	78.9	71	2	Q5UGER9_9H1V1	Q5uge9	human	immun	Q8a1l3_9H1V1	71	2	Q8a1L3_9H1V1	45	78.9	71	2	Q8a1L3_9H1V1	Q8a1l3	human	immun
139	45	78.9	71	2	Q5UGFO_9H1V1	Q5ugf0	human	immun	Q8a1l4_9H1V1	71	2	Q8a1L4_9H1V1	45	78.9	71	2	Q8a1L4_9H1V1	Q8a1l4	human	immun
140	45	78.9	71	2	Q5UGF1_9H1V1	Q5ugf1	human	immun	Q8a1l5_9H1V1	71	2	Q8a1L5_9H1V1	45	78.9	71	2	Q8a1L5_9H1V1	Q8a1l5	human	immun
141	45	78.9	71	2	Q5UGF2_9H1V1	Q5ugf2	human	immun	Q8a1l6_9H1V1	71	2	Q8a1L6_9H1V1	45	78.9	71	2	Q8a1L6_9H1V1	Q8a1l6	human	immun
142	45	78.9	71	2	Q5UGF3_9H1V1	Q5ugf3	human	immun	Q8a1l7_9H1V1	71	2	Q8a1L7_9H1V1	45	78.9	71	2	Q8a1L7_9H1V1	Q8a1l7	human	immun
143	45	78.9	71	2	Q5UGF4_9H1V1	Q5ugf4	human	immun	Q8a1l8_9H1V1	71	2	Q8a1L8_9H1V1	45	78.9	71	2	Q8a1L8_9H1V1	Q8a1l8	human	immun
144	45	78.9	71	2	Q5UGF5_9H1V1	Q5ugf5	human	immun	Q8a1l9_9H1V1	71	2	Q8a1L9_9H1V1	45	78.9	71	2	Q8a1L9_9H1V1	Q8a1l9	human	immun
145	45	78.9	71	2	Q5UGF6_9H1V1	Q5ugf6	human	immun	Q8a1l0_9H1V1	71	2	Q8a1L0_9H1V1	45	78.9	71	2	Q8a1L0_9H1V1	Q8a1l0	human	immun
146	45	78.9	71	2	Q5UGF8_9H1V1	Q5ugf8	human	immun	Q8a1l1_9H1V1	71	2	Q8a1L1_9H1V1	45	78.9	71	2	Q8a1L1_9H1V1	Q8a1l1	human	immun
147	45	78.9	71	2	Q5UGF9_9H1V1	Q5ugf9	human	immun	Q8a1l2_9H1V1	71	2	Q8a1L2_9H1V1	45	78.9	71	2	Q8a1L2_9H1V1	Q8a1l2	human	immun
148	45	78.9	71	2	Q5UGG0_9H1V1	Q5ugg0	human	immun	Q8a1l3_9H1V1	71	2	Q8a1L3_9H1V1	45	78.9	71	2	Q8a1L3_9H1V1	Q8a1l3	human	immun
149	45	78.9	71	2	Q5UGG1_9H1V1	Q5ugg1	human	immun	Q8a1l4_9H1V1	71	2	Q8a1L4_9H1V1	45	78.9	71	2	Q8a1L4_9H1V1	Q8a1l4	human	immun
150	45	78.9	71	2	Q5UGG2_9H1V1	Q5ugg2	human	immun	Q8a1l5_9H1V1	71	2	Q8a1L5_9H1V1	45	78.9	71	2	Q8a1L5_9H1V1	Q8a1l5	human	immun
151	45	78.9	71	2	Q5UGG3_9H1V1	Q5ugg3	human	immun	Q8a1l6_9H1V1	71	2	Q8a1L6_9H1V1	45	78.9	71	2	Q8a1L6_9H1V1	Q8a1l6	human	immun
152	45	78.9	71	2	Q5UGG4_9H1V1	Q5ugg4	human	immun	Q8a1l7_9H1V1	71	2	Q8a1L7_9H1V1	45	78.9	71	2	Q8a1L7_9H1V1	Q8a1l7	human	immun
153	45	78.9	71	2	Q5UGG5_9H1V1	Q5ugg5	human	immun	Q8a1l8_9H1V1	71	2	Q8a1L8_9H1V1	45	78.9	71	2	Q8a1L8_9H1V1	Q8a1l8	human	immun
154	45	78.9	71	2	Q5UGG6_9H1V1	Q5ugg6	human	immun	Q8a1l9_9H1V1	71	2	Q8a1L9_9H1V1	45	78.9	71	2	Q8a1L9_9H1V1	Q8a1l9	human	immun
155	45	78.9	71	2	Q5UGG7_9H1V1	Q5ugg7	human	immun	Q8a1l0_9H1V1	71	2	Q8a1L0_9H1V1	45	78.9	71	2	Q8a1L0_9H1V1	Q8a1l0	human	immun
156	45	78.9	71	2	Q5UGG9_9H1V1	Q5ugg9	human	immun	Q8a1l1_9H1V1	71	2	Q8a1L1_9H1V1	45	78.9	71	2	Q8a1L1_9H1V1	Q8a1l1	human	immun
157	45	78.9	71	2	Q5UGH3_9H1V1	Q5ugh3	human	immun	Q8a1l2_9H1V1	71	2	Q8a1L2_9H1V1	45	78.9	71	2	Q8a1L2_9H1V1	Q8a1l2	human	immun
158	45	78.9	71	2	Q5UGH4_9H1V1	Q5ugh4	human	immun	Q8a1l3_9H1V1	71	2	Q8a1L3_9H1V1	45	78.9	71	2	Q8a1L3_9H1V1	Q8a1l3	human	immun
159	45	78.9	71	2	Q5UGH5_9H1V1	Q5ugh5	human	immun	Q8a1l4_9H1V1	71	2	Q8a1L4_9H1V1	45	78.9	71	2	Q8a1L4_9H1V1	Q8a1l4	human	immun
160	45	78.9	71	2	Q5UGH6_9H1V1	Q5ugh6	human	immun	Q8a1l5_9H1V1	71	2	Q8a1L5_9H1V1	45	78.9	71	2	Q8a1L5_9H1V1	Q8a1l5	human	immun
161	45	78.9	71	2	Q5UGH7_9H1V1	Q5ugh7	human	immun	Q8a1l6_9H1V1	71	2	Q8a1L6_9H1V1	45	78.9	71	2	Q8a1L6_9H1V1	Q8a1l6	human	immun
162	45	78.9	71	2	Q5UGH8_9H1V1	Q5ugh8	human	immun	Q8a1l7_9H1V1	71	2	Q8a1L7_9H1V1	45	78.9	71	2	Q8a1L7_9H1V1	Q8a1l7	human	immun
163	45	78.9	71	2	Q5UGH9_9H1V1	Q5ugh9	human	immun	Q8a1l8_9H1V1	71	2	Q8a1L8_9H1V1	45	78.9	71	2	Q8a1L8_9H1V1	Q8a1l8	human	immun
164	45	78.9	71	2	Q5UGIO_9H1V1	Q5ugio	human	immun	Q8a1l9_9H1V1	71	2	Q8a1L9_9H1V1	45	78.9	71	2	Q8a1L9_9H1V1	Q8a1l9	human	immun
165	45	78.9	71	2	Q66MP3_9H1V1	Q66mp3	human	immun	Q91qk0_9H1V1	71	2	Q91QK0_9H1V1	45	78.9	71	2	Q91QK0_9H1V1	Q91qk0	human	immun
166	45	78.9	71	2	Q66MP6_9H1V1	Q66mp6	human	immun	Q91qk1_9H1V1	71	2	Q91QK1_9H1V1	45	78.9	71	2	Q91QK1_9H1V1	Q91qk1	human	immun
167	45	78.9	71	2	Q66MP9_9H1V1	Q66mp9	human	immun	Q91qk2_9H1V1	71	2	Q91QK2_9H1V1	45	78.9	71	2	Q91QK2_9H1V1	Q91qk2	human	immun
168	45	78.9	71	2	Q66MQ3_9H1V1	Q66mq3	human	immun	Q91qk3_9H1V1	71	2	Q91QK3_9H1V1	45	78.9	71	2	Q91QK3_9H1V1			

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:33:59 ; Search time 29.3333 Seconds
(without alignments)
31.003 Million cell updates/sec

Title: US-10-509-620-1

Perfect score: 57

Sequence: 1 YGRARRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5 COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/6 COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/H COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/RE COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	87.7	26	1	US-08-847-176-6
2	50	87.7	161	2	US-09-252-991A-30023
3	48	84.2	12	1	US-08-234-379-1
4	48	84.2	12	1	US-08-473-025-1
5	46	80.7	11	2	US-09-208-966-7
6	46	80.7	11	2	US-09-775-052A-7
7	46	80.7	12	1	US-08-378-709-31
8	45	80.7	458	2	US-09-252-991A-32991
9	45	78.9	11	1	US-08-706-741B-54
10	45	78.9	11	1	US-08-924-695A-54
11	45	78.9	11	2	US-09-286-966-2
12	45	78.9	11	2	US-09-296-089-37
13	45	78.9	11	2	US-09-837-863-2
14	45	78.9	11	2	US-09-660-742-1
15	45	78.9	11	2	US-09-434-345-2
16	45	78.9	11	2	US-09-632-287A-22
17	45	78.9	11	2	US-09-632-277A-4
18	45	78.9	11	2	US-09-612-033B-15
19	45	78.9	11	2	US-09-780-070-37
20	45	78.9	11	2	US-09-775-052A-2
21	45	78.9	11	2	US-09-911-842B-6
22	45	78.9	11	2	US-09-997-465B-2
23	45	78.9	11	2	US-10-083-889-17
24	45	78.9	11	2	US-09-551-976-37
25	45	78.9	11	2	US-09-265-107-75
26	45	78.9	11	2	US-09-724-126A-16
27	45	78.9	11	2	US-09-545-433-14

28	45	78.9	11	2	US-10-031-505-12	Sequence 12, Appl
29	45	78.9	11	2	US-10-144-549-6	Sequence 91, Appl
30	45	78.9	11	2	US-09-825-414-51	Sequence 6, Appl
31	45	78.9	11	2	US-10-286-696-22	Sequence 22, Appl
32	45	78.9	11	2	US-09-909-474D-5	Sequence 5, Appl
33	45	78.9	11	2	US-09-667-365-1899	Sequence 1899, Ap
34	45	78.9	11	2	US-09-553-182-21	Sequence 21, Appl
35	45	78.9	11	2	US-10-428-280-3	Sequence 3, Appl
36	45	78.9	11	2	US-09-895-593-13	Sequence 13, Appl
37	45	78.9	12	1	US-08-450-257-47	Sequence 47, Appl
38	45	78.9	12	1	US-08-450-246-47	Sequence 47, Appl
39	45	78.9	12	1	US-08-450-098-47	Sequence 47, Appl
40	45	78.9	12	1	US-08-451-233-47	Sequence 47, Appl
41	45	78.9	12	1	US-08-450-236-47	Sequence 47, Appl
42	45	78.9	12	1	US-08-733-505A-50	Sequence 50, Appl
43	45	78.9	12	2	US-08-235-403-47	Sequence 47, Appl
44	45	78.9	12	2	US-09-254-126D-46	Sequence 46, Appl
45	45	78.9	12	2	US-09-656-121-14	Sequence 14, Appl
46	45	78.9	12	2	US-09-656-121-15	Sequence 15, Appl
47	45	78.9	13	2	US-09-888-017-173	Sequence 173, App
48	45	78.9	13	2	US-09-688-017-289	Sequence 289, App
49	45	78.9	14	4	PCT-US95-06077-4	Sequence 4, Appl
50	45	78.9	14	4	PCT-US95-06077-10	Sequence 10, Appl
51	45	78.9	14	4	PCT-US95-06077-11	Sequence 11, Appl
52	45	78.9	14	4	PCT-US95-06077-12	Sequence 12, Appl
53	45	78.9	15	1	US-08-450-257-5	Sequence 5, Appl
54	45	78.9	15	1	US-08-450-257-6	Sequence 6, Appl
55	45	78.9	15	1	US-08-450-246-5	Sequence 5, Appl
56	45	78.9	15	1	US-08-450-246-6	Sequence 6, Appl
57	45	78.9	15	1	US-08-450-098-5	Sequence 5, Appl
58	45	78.9	15	1	US-08-450-098-6	Sequence 6, Appl
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60	45	78.9	15	1	US-08-451-233-6	Sequence 6, Appl
61	45	78.9	15	1	US-08-450-236-5	Sequence 5, Appl
62	45	78.9	15	1	US-08-450-236-6	Sequence 6, Appl
63	45	78.9	15	2	US-08-235-403-5	Sequence 5, Appl
64	45	78.9	15	2	US-08-235-403-6	Sequence 6, Appl
65	45	78.9	15	2	US-09-511-842A-7	Sequence 7, Appl
66	45	78.9	15	2	US-09-724-126A-17	Sequence 17, Appl
67	45	78.9	15	2	US-09-895-593-14	Sequence 14, Appl
68	45	78.9	16	2	US-09-101-751A-73	Sequence 73, Appl
69	45	78.9	16	2	US-09-999-724-73	Sequence 73, Appl
70	45	78.9	17	1	US-08-302-623-7	Sequence 7, Appl
71	45	78.9	17	2	US-09-667-365-1942	Sequence 1942, Ap
72	45	78.9	17	2	US-09-667-365-1943	Sequence 1943, Ap
73	45	78.9	18	2	US-09-720-003C-1	Sequence 1, Appl
74	45	78.9	18	2	US-09-438-905-16	Sequence 16, Appl
75	45	78.9	18	2	US-09-667-365-1939	Sequence 1939, Ap
76	45	78.9	18	2	US-09-667-365-1941	Sequence 1941, Ap
77	45	78.9	18	2	US-09-667-365-1946	Sequence 1946, Ap
78	45	78.9	18	4	PCT-US95-06077-3	Sequence 3, Appl
79	45	78.9	19	2	US-10-215-759-5	Sequence 5, Appl
80	45	78.9	19	2	US-09-667-365-1940	Sequence 1940, Ap
81	45	78.9	19	2	US-09-667-365-1945	Sequence 1945, Ap
82	45	78.9	19	2	US-10-264-672-5	Sequence 5, Appl
83	45	78.9	19	2	US-10-383-999-5	Sequence 5, Appl
84	45	78.9	20	2	US-09-720-003C-6	Sequence 6, Appl
85	45	78.9	20	2	US-09-667-365-1934	Sequence 1934, Ap
86	45	78.9	20	2	US-09-667-365-1936	Sequence 1936, Ap
87	45	78.9	20	2	US-09-667-365-1944	Sequence 1944, Ap
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:53:38 ; Search time 99 Seconds
(without alignments)
46.425 Million cell updates/sec

Title: US-10-509-620-1

Perfect score: 57

Sequence: 1 YGRARRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications AA Main.*

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- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	52	91.2	11	5	US-10-509-620-13
3	51	89.5	11	5	US-10-509-620-2
4	50	87.7	196	4	US-10-437-963-148651
5	50	87.7	267	4	US-10-425-114-67057
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116	45	78.9	11	4	US-10-633-423-20	Sequence 20, Appl	189	45	78.9	13	4	US-10-156-570A-30	Sequence 30, Appl
117	45	78.9	11	4	US-10-427-741-20	Sequence 20, Appl	190	45	78.9	13	4	US-10-061-607A-5	Sequence 5, Appli
118	45	78.9	11	4	US-10-735-354-7	Sequence 7, Appli	191	45	78.9	13	4	US-10-165-860A-16	Sequence 16, Appl
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121	45	78.9	11	5	US-10-819-375-115	Sequence 115, App	194	45	78.9	13	5	US-10-738-632-8	Sequence 8, Appli
122	45	78.9	11	5	US-10-816-465-3	Sequence 3, Appli	195	45	78.9	13	5	US-10-809-144-13	Sequence 13, Appl
123	45	78.9	11	5	US-10-816-591A-2	Sequence 2, Appli	196	45	78.9	13	5	US-10-938-249-173	Sequence 173, App
124	45	78.9	11	5	US-10-890-368-22	Sequence 22, Appl	197	45	78.9	13	6	US-11-131-054-173	Sequence 173, App
125	45	78.9	11	5	US-10-482-793-7	Sequence 7, Appli	198	45	78.9	13	6	US-11-131-054-289	Sequence 289, App
126	45	78.9	11	5	US-10-685-305-37	Sequence 37, Appl	199	45	78.9	13	6	US-11-131-042-173	Sequence 173, App
127	45	78.9	11	5	US-10-889-948-22	Sequence 22, Appl	200	45	78.9	13	6	US-11-131-042-289	Sequence 289, App
128	45	78.9	11	5	US-10-846-352-13	Sequence 13, Appl	201	45	78.9	14	3	US-09-910-432-3	Sequence 3, Appli
129	45	78.9	11	5	US-10-738-632-24	Sequence 24, Appl	202	45	78.9	14	4	US-10-399-241A-23	Sequence 23, Appl
130	45	78.9	11	5	US-10-850-873-25	Sequence 25, Appl	203	45	78.9	14	4	US-10-281-092-36	Sequence 36, Appl
131	45	78.9	11	5	US-10-893-776A-91	Sequence 91, Appl	204	45	78.9	14	4	US-10-790-768A-7	Sequence 7, Appli
132	45	78.9	11	5	US-10-881-781-2	Sequence 2, Appli	205	45	78.9	14	4	US-10-790-768A-8	Sequence 8, Appli
133	45	78.9	11	5	US-10-835-151-6	Sequence 6, Appli	206	45	78.9	15	3	US-09-815-108-10	Sequence 10, Appl
134	45	78.9	11	5	US-10-835-151-12	Sequence 12, Appl	207	45	78.9	15	3	US-09-805-805-9	Sequence 9, Appli
135	45	78.9	11	5	US-10-870-711-13	Sequence 13, Appl	208	45	78.9	15	3	US-09-895-943-14	Sequence 14, Appl
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142	45	78.9	11	5	US-10-745-110-5	Sequence 5, Appli	215	45	78.9	15	3	US-09-995-515-15	Sequence 15, Appl
143	45	78.9	11	5	US-10-758-636A-16	Sequence 16, Appl	216	45	78.9	15	3	US-09-895-593-14	Sequence 14, Appl
144	45	78.9	11	5	US-10-735-420-3	Sequence 3, Appli	217	45	78.9	15	3	US-09-896-738-11	Sequence 11, Appl
145	45	78.9	11	5	US-10-634-243-1	Sequence 1, Appli	218	45	78.9	15	4	US-09-798-053-11	Sequence 11, Appl
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151	45	78.9	11	5	US-10-509-620-15	Sequence 15, Appl	224	45	78.9	15	4	US-10-251-947-8	Sequence 8, Appli
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153	45	78.9	11	5	US-10-946-625-7	Sequence 7, Appli	226	45	78.9	15	4	US-10-374-207-37	Sequence 37, Appl
154	45	78.9	11	5	US-10-991-224-8	Sequence 8, Appli	227	45	78.9	15	4	US-10-061-607A-48	Sequence 48, Appl
155	45	78.9	11	5	US-10-977-680-18	Sequence 18, Appl	228	45	78.9	15	4	US-10-076-260-7	Sequence 7, Appli
156	45	78.9	11	5	US-10-998-526-24	Sequence 24, Appl	229	45	78.9	15	4	US-10-412-804A-12	Sequence 12, Appl
157	45	78.9	11	6	US-11-015-205-6	Sequence 6, Appli	230	45	78.9	15	4	US-10-373-228-7	Sequence 7, Appli
158	45	78.9	11	6	US-11-021-928A-257	Sequence 257, App	231	45	78.9	15	4	US-10-679-670A-24	Sequence 24, Appl
159	45	78.9	11	6	US-11-031-428-3	Sequence 3, Appli	232	45	78.9	15	4	US-10-758-672A-17	Sequence 17, Appl
160	45	78.9	11	6	US-11-052-527-13	Sequence 13, Appl	233	45	78.9	15	4	US-10-735-354-8	Sequence 8, Appli
161	45	78.9	11	6	US-11-052-427-13	Sequence 13, Appl	234	45	78.9	15	5	US-10-347-145B-110	Sequence 110, App
162	45	78.9	11	6	US-11-011-557-92	Sequence 92, Appl	235	45	78.9	15	5	US-10-485-180-56	Sequence 56, Appl
163	45	78.9	11	6	US-11-032-630-18	Sequence 18, Appl	236	45	78.9	15	5	US-10-745-110-6	Sequence 6, Appli
164	45	78.9	11	6	US-11-030-794-3	Sequence 3, Appli	237	45	78.9	15	5	US-10-758-636A-17	Sequence 17, Appl
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171	45	78.9	12	4	US-10-024-935-7	Sequence 7, Appli	244	45	78.9	15	6	US-11-052-527-14	Sequence 14, Appl
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OM protein - protein search, using sw model

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 28622889 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	46	80.7	19	6	US-10-903-612B-67
3	46	80.7	21	6	US-10-903-612B-62
4	46	80.7	21	6	US-10-903-612B-63
5	46	80.7	21	6	US-10-903-612B-64
6	46	80.7	21	6	US-10-903-612B-65
7	46	80.7	21	6	US-10-903-612B-66
8	46	80.7	22	6	US-10-903-612B-68
9	46	80.7	22	6	US-10-903-612B-69
10	46	80.7	22	6	US-10-903-612B-70
11	46	80.7	22	6	US-10-903-612B-71
12	46	80.7	22	6	US-10-903-612B-72
13	46	80.7	153	7	US-11-096-568A-5443
14	45	78.9	11	6	US-10-507-275-13
15	45	78.9	11	6	US-10-839-966-2
16	45	78.9	11	6	US-10-524-919-7
17	45	78.9	11	6	US-10-508-504-2
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19	45	78.9	11	6	US-10-909-769-5
20	45	78.9	11	6	US-10-923-112A-26
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24	45	78.9	11	7	US-11-045-024-12265
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33	45	78.9	12	7	US-11-026-403-1	Sequence 1, Appl
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35	45	78.9	12	7	US-11-133-804-68	Sequence 68, Appl
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59	45	78.9	21	6	US-10-485-788A-493	Sequence 493, App
60	45	78.9	21	6	US-10-903-612B-55	Sequence 55, Appl
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84	45	78.9	72	7	US-11-009-063-32	Sequence 32, Appl
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92	45	78.9	138	7	US-11-082-544-60	Sequence 60, Appl
93	45	78.9	140	7	US-11-102-883-12	Sequence 12, Appl
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96	45	78.9	228	7	US-11-102-883-36	Sequence 36, Appl
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99	45	78.9	283	7	US-11-102-883-32	Sequence 32, Appl	172	39	68.4	19	6	US-10-903-612B-106	Sequence 106, App
100	45	78.9	289	7	US-11-102-883-2	Sequence 2, Appli	173	39	68.4	19	6	US-10-903-612B-107	Sequence 107, App
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115	42	73.7	22	6	US-10-903-612B-79	Sequence 79, Appl	188	39	68.4	20	6	US-10-903-612B-27	Sequence 27, Appl
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126	42	73.7	401	7	US-11-096-568A-9081	Sequence 9081, Ap	199	39	68.4	21	6	US-10-903-612B-34	Sequence 34, Appl
127	41	71.9	32	7	US-11-081-140-4	Sequence 4, Appli	200	39	68.4	21	6	US-10-903-612B-35	Sequence 35, Appl
128	41	71.9	31	7	US-11-081-140-1	Sequence 1, Appli	201	39	68.4	21	6	US-10-903-612B-36	Sequence 36, Appl
129	41	71.9	101	7	US-11-047-757-8	Sequence 8, Appli	202	39	68.4	21	6	US-10-903-612B-91	Sequence 91, Appl
130	41	71.9	101	7	US-11-048-490-8	Sequence 8, Appli	203	39	68.4	21	6	US-10-903-612B-91	Sequence 91, Appl
131	41	71.9	155	7	US-11-096-568A-19104	Sequence 19104, A	204	39	68.4	22	6	US-10-903-612B-14	Sequence 14, Appl
132	41	71.9	188	7	US-11-096-568A-4142	Sequence 4142, Ap	205	39	68.4	22	6	US-10-903-612B-15	Sequence 15, Appl
133	41	71.9	209	7	US-11-096-568A-19130	Sequence 19130, A	206	39	68.4	22	6	US-10-903-612B-16	Sequence 16, Appl
134	41	71.9	305	7	US-11-096-568A-2133	Sequence 2133, Ap	207	39	68.4	22	6	US-10-903-612B-17	Sequence 17, Appl
135	40	70.2	10	6	US-10-918-638-1	Sequence 1, Appli	208	39	68.4	22	6	US-10-903-612B-18	Sequence 18, Appl
136	40	70.2	10	7	US-11-045-024-10432	Sequence 10432, A	209	39	68.4	22	7	US-11-133-804-5	Sequence 5, Appli
137	40	70.2	10	7	US-11-045-024-12266	Sequence 12266, A	210	39	68.4	22	7	US-11-133-804-9	Sequence 9, Appli
138	40	70.2	19	7	US-11-049-636-19	Sequence 19, Appl	211	39	68.4	22	7	US-11-133-804-53	Sequence 53, Appl
139	40	70.2	123	7	US-11-096-568A-25201	Sequence 25201, A	212	39	68.4	23	6	US-10-903-612B-20	Sequence 20, Appl
140	40	70.2	136	7	US-11-096-568A-11844	Sequence 11844, A	213	39	68.4	23	6	US-10-903-612B-21	Sequence 21, Appl
141	40	70.2	148	7	US-11-230-180-14	Sequence 14, Appl	214	39	68.4	23	6	US-10-903-612B-22	Sequence 22, Appl
142	40	70.2	165	7	US-11-096-568A-116	Sequence 116, App	215	39	68.4	23	6	US-10-903-612B-23	Sequence 23, Appl
143	40	70.2	185	7	US-11-096-568A-25833	Sequence 25833, A	216	39	68.4	23	6	US-10-903-612B-24	Sequence 24, Appl
144	40	70.2	206	7	US-11-096-568A-11190	Sequence 11190, A	217	39	68.4	23	6	US-10-903-612B-86	Sequence 86, Appl
145	40	70.2	292	7	US-11-096-568A-24444	Sequence 24444, A	218	39	68.4	23	6	US-10-903-612B-87	Sequence 87, Appl
146	40	70.2	356	7	US-11-087-099-6892	Sequence 6892, Ap	219	39	68.4	23	6	US-10-903-612B-88	Sequence 88, Appl
147	40	70.2	1379	7	US-11-114-962-4	Sequence 4, Appli	220	39	68.4	23	6	US-10-903-612B-89	Sequence 89, Appl
148	39.5	69.3	252	7	US-11-096-568A-368	Sequence 368, App	221	39	68.4	23	6	US-10-903-612B-90	Sequence 90, Appl
149	39.5	69.3	252	7	US-11-096-568A-27229	Sequence 27229, A	222	39	68.4	23	7	US-11-133-804-7	Sequence 7, Appli
150	39	68.4	9	6	US-10-985-426-7	Sequence 7, Appli	223	39	68.4	23	7	US-11-133-804-19	Sequence 19, Appl
151	39	68.4	9	7	US-11-016-542-20	Sequence 20, Appl	224	39	68.4	23	7	US-11-133-804-52	Sequence 52, Appl
152	39	68.4	9	7	US-11-133-804-47	Sequence 47, Appl	225	39	68.4	24	6	US-10-903-612B-92	Sequence 92, Appl
153	39	68.4	11	6	US-10-535-780-3	Sequence 3, Appli	226	39	68.4	24	6	US-10-903-612B-93	Sequence 93, Appl
154	39	68.4	12	7	US-11-077-871-22	Sequence 22, Appl	227	39	68.4	24	6	US-10-903-612B-94	Sequence 94, Appl
155	39	68.4	12	7	US-11-136-245A-16	Sequence 16, Appl	228	39	68.4	24	6	US-10-903-612B-95	Sequence 95, Appl
156	39	68.4	12	7	US-11-133-804-80	Sequence 80, Appl	229	39	68.4	24	6	US-10-903-612B-96	Sequence 96, Appl
157	39	68.4	15	6	US-10-903-612B-97	Sequence 97, Appl	230	39	68.4	25	6	US-10-903-612B-37	Sequence 37, Appl
158	39	68.4	106	6	US-10-903-612B-104	Sequence 104, App	231	39	68.4	26	6	US-10-903-612B-43	Sequence 43, Appl
159	39	68.4	16	7	US-11-133-804-79	Sequence 79, Appl	232	39	68.4	27	6	US-10-903-612B-38	Sequence 38, Appl
160	39	68.4	17	6	US-10-903-612B-1	Sequence 1, Appli	233	39	68.4	28	6	US-10-903-612B-39	Sequence 39, Appl
161	39	68.4	17	6	US-10-903-612B-25	Sequence 25, Appl	234	39	68.4	28	6	US-10-903-612B-40	Sequence 40, Appl
162	39	68.4	17	7	US-11-133-804-6	Sequence 6, Appli	235	39	68.4	28	6	US-10-903-612B-41	Sequence 41, Appl
163	39	68.4	18	6	US-10-903-612B-7	Sequence 7, Appli	236	39	68.4	28	6	US-10-903-612B-42	Sequence 42, Appl
164	39	68.4	18	6	US-10-903-612B-31	Sequence 31, Appl	237	39	68.4	29	6	US-10-903-612B-44	Sequence 44, Appl
165	39	68.4	18	6	US-10-903-612B-98	Sequence 98, Appl	238	39	68.4	29	6	US-10-903-612B-45	Sequence 45, Appl
166	39	68.4	18	6	US-10-903-612B-99	Sequence 99, Appl	239	39	68.4	29	6	US-10-903-612B-46	Sequence 46, Appl
167	39	68.4	18	6	US-10-903-612B-101	Sequence 101, App	240	39	68.4	29	6	US-10-903-612B-47	Sequence 47, Appl
168	39	68.4	18	6	US-10-903-612B-102	Sequence 102, App	241	39	68.4	29	6	US-10-903-612B-48	Sequence 48, Appl
169	39	68.4	18	6	US-10-903-612B-103	Sequence 103, App	242	39	68.4	74	7	US-11-096-568A-24281	Sequence 24281, A
170	39	68.4	19	6	US-10-903-612B-13	Sequence 13, Appl	243	39	68.4	119	7	US-11-096-568A-12215	Sequence 12215, A
171	39	68.4	19	6	US-10-903-612B-105	Sequence 105, App	244	39	68.4	132	7	US-11-096-568A-14135	Sequence 14135, A

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Title: US-10-509-620-2
Perfect score: 56
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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 2443163

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SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	56	100.0	11	8	ADG12869 Cytoplasm
2	56	100.0	11	8	ADG12908 Cytoplasm
3	51	91.1	11	8	ADG12910 Cytoplasm
4	51	91.1	11	8	ADG12868 Cytoplasm
5	50	89.3	11	8	ADG12870 Cytoplasm
6	50	89.3	11	8	ADG12906 Cytoplasm
7	46	82.1	11	8	ADG12912 Cytoplasm
8	46	82.1	11	8	ADG12880 Cytoplasm
9	44	78.6	11	8	ADG12876 Cytoplasm
10	44	78.6	11	8	ADG12894 Cytoplasm
11	44	78.6	21	8	ADG12949 Cytoplasm
12	44	78.6	26	2	AAW76545 HIV-1 Tat
13	44	78.6	26	9	ADW71095 HIV RNA b
14	44	78.6	161	7	ABO81277 Pseudomon
15	44	78.6	229	7	ABO79609 Pseudomon
16	44	78.6	267	8	ADY11242 Plant ful
17	43	76.8	11	3	AAV93544 Amino aci
18	43	76.8	11	3	AAAB29416 Synthetic
19	43	76.8	11	4	AAE05275 Human imm
20	43	76.8	11	5	AAU76082 Peptide t
21	43	76.8	11	5	AAU76082 Peptide t
22	43	76.8	11	5	AAU76082 Peptide t
23	43	76.8	11	5	AAU76082 Peptide t
24	43	76.8	11	6	ABP56075 Protein t

25	43	76.8	11	6	AAE33881	HIV-Tat s
26	43	76.8	11	6	ADA61900	NFKB esse
27	43	76.8	11	6	ADA61899	NFKB esse
28	43	76.8	11	7	ADC35035	Artificia
29	43	76.8	11	7	ADN60170	Novel rec
30	43	76.8	11	8	ADG27414	HIV-1 tat
31	43	76.8	11	8	ABU64426	Peptide c
32	43	76.8	11	8	ADIS2952	PTD-3 pep
33	43	76.8	11	9	ADV39131	Synthetic
34	43	76.8	11	9	ADZ64542	HIV TAT p
35	43	76.8	22	5	AAW48634	Anti-infl
36	43	76.8	22	5	AAW48635	Anti-infl
37	43	76.8	22	6	ADA61911	NFKB esse
38	43	76.8	22	6	ADA61910	NFKB esse
39	43	76.8	22	6	ADA61925	NFKB esse
40	43	76.8	174	8	ADK16451	Nanoarcha
41	43	76.8	181	8	ADT60945	Plant pol
42	43	76.8	190	6	ABP56094	PTD3-VP3
43	43	76.8	229	5	ABU05395	M. tuberc
44	43	76.8	259	5	ABO71566	Pseudomon
45	43	76.8	418	8	ADT59720	Plant pol
46	42	75.0	101	8	ADO40047	Human imm
47	42	75.0	179	7	ABO78455	Pseudomon
48	42	75.0	213	7	ABO70283	Pseudomon
49	42	75.0	467	8	ADQ97350	Mouse can
50	41	73.2	11	8	ADG12872	Cytoplasm
51	41	73.2	11	8	ADG12902	Cytoplasm
52	41	73.2	14	8	ADN48898	Amphipath
53	41	73.2	14	8	ADN48915	Cellular
54	41	73.2	14	9	ADZ99772	Cellular
55	41	73.2	14	9	ADZ99795	Cellular
56	41	73.2	183	8	ADX90704	Plant ful
57	41	73.2	401	7	ABO74276	Pseudomon
58	41	73.2	497	6	ABP59670	R ruber v
59	41	73.2	642	7	ABO78299	Pseudomon
60	41	73.2	841	8	ADY09294	Plant ful
61	41	73.2	841	8	ADX91017	Plant ful
62	40	71.4	11	2	AAV25079	Transduct
63	40	71.4	11	3	AAV93548	Amino aci
64	40	71.4	11	3	AAW29420	Synthetic
65	40	71.4	11	4	AAE05279	Human imm
66	40	71.4	11	5	AAU76086	Peptide t
67	40	71.4	11	6	ABP96986	Anti-infl
68	40	71.4	11	6	ABP56079	Protein t
69	40	71.4	11	6	AAE33885	HIV-Tat s
70	40	71.4	11	7	ADN60174	Novel rec
71	40	71.4	11	8	ADIS2956	PTD-7 pep
72	40	71.4	11	9	ADZ64546	HIV TAT p
73	40	71.4	12	2	AAW44186	Anti-herp
74	40	71.4	12	2	AAW44187	Anti-herp
75	40	71.4	12	4	AAE08678	Human imm
76	40	71.4	23	5	AAU78928	Flag tagg
77	40	71.4	48	7	ABM89109	Rice abio
78	40	71.4	61	8	AAU58258	Human gen
79	40	71.4	73	8	AAU63961	Propionib
80	40	71.4	73	6	ABM60480	Propionib
81	40	71.4	85	4	ABG11374	Novel hum
82	40	71.4	99	3	AAW54627	Zea mays
83	40	71.4	101	9	ADX40349	HIV Tat p
84	40	71.4	101	9	ADX40300	HIV Tat p
85	40	71.4	102	7	ADL66509	HIV-1 mut
86	40	71.4	102	7	ADL66520	HIV-1 mut
87	40	71.4	102	7	ADL66564	HIV-1 mut
88	40	71.4	102	7	ADL66568	HIV-1 mut
89	40	71.4	102	7	ADL66541	HIV-1 mut
90	40	71.4	102	7	ADL66562	HIV-1 mut
91	40	71.4	102	7	ADL66521	HIV-1 mut
92	40	71.4	102	7	ADL66604	HIV-1 mut
93	40	71.4	102	7	ADL66605	HIV-1 mut
94	40	71.4	102	7	ADL66563	HIV-1 mut
95	40	71.4	102	7	ADL66522	HIV-1 mut
96	40	71.4	102	7	ADL66539	HIV-1 mut
97	40	71.4	102	7	ADL66590	HIV-1 mut

98	40	71.4	102	7	ADL66543	ADL66543	HIV-1 mut	171	39	69.6	11	5	ABB84578	ABb84578	HIV TAT p
99	40	71.4	102	7	ADL66603	ADL66603	HIV-1 mut	172	39	69.6	11	5	ABG95820	ABg95820	Cell pene
100	40	71.4	102	7	ADL66569	ADL66569	HIV-1 mut	173	39	69.6	11	5	AM48622	AM48622	Anti-infl
101	40	71.4	102	7	ADL66570	ADL66570	HIV-1 mut	174	39	69.6	11	5	AM48621	AM48621	Anti-infl
102	40	71.4	194	4	ABG15399	ABg15399	Novel hum	175	39	69.6	11	5	AAE18833	AAe18833	Protein t
103	40	71.4	204	7	ADL66517	ADL66517	HIV-1 mut	176	39	69.6	11	5	AAU79799	AAU79799	Peptide s
104	40	71.4	223	8	ADY09558	ADy09558	Plant ful	177	39	69.6	11	5	AAU11033	AAU11033	Human imm
105	40	71.4	229	8	ADX80250	ADx80250	Plant ful	178	39	69.6	11	5	AAE21137	AAe21137	HIV TAT p
106	40	71.4	245	8	ADX74313	ADx74313	Plant ful	179	39	69.6	11	5	AM48194	AM48194	HIV TAT p
107	40	71.4	268	7	ABO76862	ABO76862	Pseudomon	180	39	69.6	11	5	AAE16487	AAE16487	Human imm
108	40	71.4	270	7	ABO78372	ABO78372	Pseudomon	181	39	69.6	11	5	ADG27654	ADg27654	Human IGR
109	40	71.4	458	7	ABO84245	ABO84245	Pseudomon	182	39	69.6	11	6	AAO16343	AAO16343	Human imm
110	40	71.4	477	7	ABO76792	ABO76792	Pseudomon	183	39	69.6	11	6	AAE35420	AAE35420	HIV tat p
111	40	71.4	641	4	ABBS8465	ABb58465	Drosophil	184	39	69.6	11	6	ABP57917	ABp57917	Human imm
112	40	71.4	641	6	ABR82392	ABr82392	D. melano	185	39	69.6	11	6	ABP57917	ABp57917	Human imm
113	40	71.4	646	7	ABO74553	ABO74553	Pseudomon	186	39	69.6	11	6	ABP71286	ABp71286	TAT-deriv
114	40	71.4	1632	7	ADL66542	ADL66542	HIV-1 mut	187	39	69.6	11	6	ABU76123	ABU76123	Tat-deriv
115	39	69.6	10	5	AAW78931	AAW78931	9 Arginin	188	39	69.6	11	6	ABU09580	ABU09580	Cell perm
116	39	69.6	11	2	AAW50263	AAw50263	HIV-1 tat	189	39	69.6	11	6	ABP96989	ABp96989	Anti-infl
117	39	69.6	11	2	AAW05415	AAy05415	Tat pepti	190	39	69.6	11	6	ABP97352	ABp97352	Tat fragm
118	39	69.6	11	2	AAW25075	AAy25075	TAT trans	191	39	69.6	11	6	ABP56074	ABp56074	TAT trans
119	39	69.6	11	3	AAW27088	AAb27088	Beta-cate	192	39	69.6	11	6	AAE35355	AAE35355	HIV type
120	39	69.6	11	3	AAW09907	AAW09907	HIV tat p	193	39	69.6	11	6	AAE33880	AAE33880	Human imm
121	39	69.6	11	3	AAW93542	AAy93542	Amino aci	194	39	69.6	11	6	ABG74845	ABg74845	HIV TAT p
122	39	69.6	11	3	AAW71015	AAy71015	Human imm	195	39	69.6	11	6	AAO16688	AAO16688	HIV cell-
123	39	69.6	11	3	AAW35698	AAb35698	Peptide a	196	39	69.6	11	6	ABP70229	ABp70229	Membrane
124	39	69.6	11	3	AAW03961	AAb03961	Minimel e	197	39	69.6	11	6	ABG72698	ABg72698	HIV tat p
125	39	69.6	11	3	AAW29413	AAb29413	HIV TAT t	198	39	69.6	11	6	AAO26515	AAO26515	FITC-cons
126	39	69.6	11	3	AAW03932	AAW03932	TAT prote	199	39	69.6	11	6	AAE33579	AAE33579	Human imm
127	39	69.6	11	4	AAW71757	AAb71757	HIV TAT p	200	39	69.6	11	6	AAE36378	AAE36378	Human imm
128	39	69.6	11	4	AAW71756	AAb71756	NTR3 deri	201	39	69.6	11	6	ABP57670	ABp57670	HIV tat r
129	39	69.6	11	4	AAW60006	AAb60006	Internali	202	39	69.6	11	6	ABR61934	ABr61934	Tat pepti
130	39	69.6	11	4	AAE05268	AAe05268	Human imm	203	39	69.6	11	6	ABR61933	ABr61933	Tat pepti
131	39	69.6	11	4	AAE02973	AAe02973	Protein t	204	39	69.6	11	6	ADA61897	ADa61897	NFKB esse
132	39	69.6	11	4	AAE03418	AAe03418	Human imm	205	39	69.6	11	6	ADA61898	ADa61898	NFKB esse
133	39	69.6	11	4	AAE03815	AAe03815	HIV tat p	206	39	69.6	11	6	ADA45194	ADa45194	HIV-TAT p
134	39	69.6	11	4	AAW98683	AAb98683	HIV TAT p	207	39	69.6	11	6	ADA50142	ADa50142	HIV-TAT p
135	39	69.6	11	4	AAW73305	AAb73305	HIV-1 TAT	208	39	69.6	11	6	ADA61217	ADa61217	HIV tat p
136	39	69.6	11	4	AAW70458	AAg70458	Human G2	209	39	69.6	11	6	ABR82379	ABr82379	Peptide f
137	39	69.6	11	4	AAW68376	AAg68376	Human Chk	210	39	69.6	11	6	ADA37057	ADa37057	Tat prote
138	39	69.6	11	4	AAW65673	AAg65673	HIV tat p	211	39	69.6	11	7	AAO30117	AAO30117	HIV tat p
139	39	69.6	11	4	AAE12605	AAe12605	Human imm	212	39	69.6	11	7	ADA88841	ADa88841	Antemape
140	39	69.6	11	4	AAW67673	AAb67673	Transduct	213	39	69.6	11	7	ABR84578	ABr84578	HIV Tat d
141	39	69.6	11	4	AAE03730	AAe03730	Protein t	214	39	69.6	11	7	AAE38677	AAE38677	HIV Tat d
142	39	69.6	11	4	AAW50221	AAm50221	HIV-1 tat	215	39	69.6	11	7	ADB90670	ADb90670	Internali
143	39	69.6	11	4	AAU09932	AAU09932	Human imm	216	39	69.6	11	7	ADB99525	ADb99525	TAT pepti
144	39	69.6	11	4	AAE12891	AAe12891	Human imm	217	39	69.6	11	7	ABR82753	ABR82753	Amino aci
145	39	69.6	11	4	AAE13064	AAe13064	Protein t	218	39	69.6	11	7	ADC21309	ADc21309	HIV-1 TAT
146	39	69.6	11	4	AAW69170	AAb69170	HIV tat p	219	39	69.6	11	7	ADC21301	ADc21301	HIV-1 TAT
147	39	69.6	11	4	AAW70481	AAb70481	HIV TAT p	220	39	69.6	11	7	ADC35032	ADc35032	HIV tat-p
148	39	69.6	11	4	AAU09812	AAU09812	HIV-1 tat	221	39	69.6	11	7	ADC42891	ADc42891	HIV tat p
149	39	69.6	11	4	AAE04300	AAe04300	Human imm	222	39	69.6	11	7	ADD57130	ADd57130	HLA bandi
150	39	69.6	11	4	AAE12204	AAe12204	Membrane	223	39	69.6	11	7	ADD21430	ADd21430	HIV-1 TAT
151	39	69.6	11	4	AAW69548	AAb69548	HIV tat p	224	39	69.6	11	7	ADD26427	ADd26427	transmemb
152	39	69.6	11	4	AAW85847	AAb85847	HIV-1 tat	225	39	69.6	11	7	ADB36734	ADb36734	Internali
153	39	69.6	11	4	AAW82757	AAb82757	HIV TAT p	226	39	69.6	11	7	ADN90605	ADn90605	HIV prote
154	39	69.6	11	5	AAU76115	AAU76115	Peptide t	227	39	69.6	11	7	ADN90779	ADn90779	HIV tat p
155	39	69.6	11	5	AAU77483	AAU77483	HIV-1 tat	228	39	69.6	11	7	ADP56534	ADp56534	HIV-1 pro
156	39	69.6	11	5	ABG78986	ABg78986	Cell pene	229	39	69.6	11	7	ADF88578	ADf88578	Protein t
157	39	69.6	11	5	AAE18125	AAe18125	Human imm	230	39	69.6	11	7	ADG44412	ADg44412	Anti-path
158	39	69.6	11	5	ABW74239	ABb74239	HIV TAT f	231	39	69.6	11	7	ADG14373	ADg14373	HIV Tat p
159	39	69.6	11	5	ABW74244	ABb74244	HIV TAT f	232	39	69.6	11	7	ADG17947	ADg17947	FITC cons
160	39	69.6	11	5	ABW3080	ABe23080	HIV tat p	233	39	69.6	11	7	ADG28005	ADg28005	HIV TAT p
161	39	69.6	11	5	ABW82413	ABb82413	HIV-1 pep	234	39	69.6	11	7	ADG73133	ADg73133	HIV TAT p
162	39	69.6	11	5	ABP51634	ABp51634	HIV tat p	235	39	69.6	11	7	ADW02718	ADw02718	HIV TAT p
163	39	69.6	11	5	AAE20790	AAe20790	Human imm	236	39	69.6	11	7	ADH78808	ADh78808	Internali
164	39	69.6	11	5	AAU75548	AAU75548	Human imm	237	39	69.6	11	7	ADL12189	ADL12189	HIV TAT d
165	39	69.6	11	5	ABB05786	ABb05786	HIV tat r	238	39	69.6	11	7	ADL88643	ADl88643	HIV TAT p
166	39	69.6	11	5	ABB07211	ABb07211	Amino aci	239	39	69.6	11	7	ADN60167	ADn60167	Novel rec
167	39	69.6	11	5	AAU78967	AAU78967	TAT pepti	240	39	69.6	11	8	ADN60167	ADn60167	Novel rec
168	39	69.6	11	5	AAU77222	AAU77222	HIV tat p	241	39	69.6	11	8	ADF83322	ADf83322	HIV tat p
169	39	69.6	11	5	AAW47460	AAW47460	HIV tat p	242	39	69.6	11	8	ADF12507	ADf12507	HIV TAT p
170	39	69.6	11	5	AAE18343	AAe18343	Human imm	243	39	69.6	11	8	ADF57558	ADf57558	HIV TAT p
													ADG27413	ADg27413	HIV-1 tat

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:27:23 ; Search time 19.6667 Seconds
(without alignments)
53.816 Million cell updates/sec

Title: US-10-509-620-2

Perfect score: 56

Sequence: 1 YGRRARRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : PIR 80.*

1: piri.*

2: piri2.*

3: piri3.*

4: piri4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	78.6	352	2	G72747
2	44	78.6	469	2	T34645
3	43	76.8	229	2	A86944
4	41	73.2	57	2	A34356
5	41	73.2	77	2	B40973
6	41	73.2	79	2	A40973
7	41	73.2	78	2	S56116
8	41	73.2	91	2	A59493
9	41	73.2	118	2	S56117
10	41	73.2	165	2	A59492
11	41	73.2	172	2	P87649
12	40	71.4	898	2	H87481
13	40	71.4	1001	2	T50914
14	39	69.6	37	2	S29829
15	39	69.6	47	2	F58208
16	39	69.6	47	2	E58208
17	39	69.6	71	2	T09384
18	39	69.6	72	1	TNLJH4
19	39	69.6	86	1	TNLJ2R
20	39	69.6	86	2	A25700
21	39	69.6	86	2	JC5591
22	39	69.6	86	2	S54381
23	39	69.6	86	2	S33982
24	39	69.6	87	2	T01665
25	39	69.6	95	1	TNLJ12
26	39	69.6	101	1	E44001
27	39	69.6	101	2	T09446
28	39	69.6	294	2	E87538
29	39	69.6	417	2	E30341

30	39	69.6	517	2	A45121
31	39	69.6	900	2	C96842
32	39	69.6	1325	2	T25753
33	38	67.9	197	1	WMBEY6
34	38	67.9	206	2	A43965
35	38	67.9	215	2	G70575
36	38	67.9	235	1	WMBEYX
37	38	67.9	530	2	S52215
38	38	67.9	616	2	JQ1441
39	38	67.9	860	2	T35971
40	38	67.9	1201	2	T31114
41	37.5	67.0	58	2	S34045
42	37	66.1	61	2	S39425
43	37	66.1	77	2	S06354
44	37	66.1	85	2	A05126
45	37	66.1	221	2	A42701
46	37	66.1	221	2	B42701
47	37	66.1	383	2	G75370
48	37	66.1	393	2	C83387
49	37	66.1	481	2	T15372
50	37	66.1	729	2	A29651
51	37	66.1	891	2	A46203
52	37	66.1	1104	2	T49647
53	37	66.1	1193	2	A86193
54	36	64.3	45	2	D58208
55	36	64.3	58	2	A58208
56	36	64.3	86	1	TNLJND
57	36	64.3	134	2	A87677
58	36	64.3	409	2	C87538
59	36	64.3	420	2	A45166
60	36	64.3	435	2	E86286
61	36	64.3	447	2	F71039
62	36	64.3	499	2	S17785
63	36	64.3	511	1	A48560
64	36	64.3	512	1	WMBEYX
65	36	64.3	512	1	WMBEY4
66	36	64.3	514	2	D97584
67	36	64.3	514	2	AD2805
68	36	64.3	863	2	T49709
69	36	64.3	1403	1	A47328
70	35	62.5	41	2	H58208
71	35	62.5	45	2	C58208
72	35	62.5	45	2	B58208
73	35	62.5	62	2	A34326
74	35	62.5	169	2	T36521
75	35	62.5	234	2	S27956
76	35	62.5	248	2	E70600
77	35	62.5	303	2	T35616
78	35	62.5	320	2	F96745
79	35	62.5	323	2	A96670
80	35	62.5	349	2	H87379
81	35	62.5	379	2	D85823
82	35	62.5	407	1	VCBEPH
83	35	62.5	430	2	F90976
84	35	62.5	472	2	A26357
85	35	62.5	483	2	S36470
86	35	62.5	485	2	AH0756
87	35	62.5	494	2	S36541
88	35	62.5	506	1	W2ML47
89	35	62.5	531	2	S09859
90	35	62.5	541	2	T19304
91	35	62.5	547	2	B64963
92	35	62.5	608	2	B87575
93	35	62.5	730	2	G75292
94	35	62.5	755	2	S42462
95	34.5	61.6	144	2	G70894
96	34.5	61.6	193	2	A70583
97	34	60.7	33	2	D21211
98	34	60.7	33	2	C21211
99	34	60.7	33	2	T01070
100	34	60.7	40	2	A40128
101	34	60.7	47	2	S22828
102	34	60.7	49	2	S00228

alpha-1B adrenergic
hypothetical prote
hypothetical prote
UL56 protein - hum
UL56 protein - hum
hypothetical prote
UL56 protein - hum
hypothetical prote
hypothetical 67K p
conserved hypothe
transcription-repa
protamine - North
protamine P1 - duc
hypothetical prote
hypothetical prote
splicing factor SF
PR264 protein - ch
hypothetical prote
iron-sulfur cofact
hypothetical prote
KEX1 protein precu
mating type A-alph
MSPI related prote
hypothetical prote
protamine II-3 - p
protamine I-1 - pa
trans-activating t
hypothetical prote
conserved hypothe
protein-lysine 6-o
protein F3P19.23
hypothetical prote
gamma-aminobutyric
UL54 protein - hum
UL54 protein - hum
UL54 protein - hum
hypothetical prote
conserved hypothe
related to glucan
natural killer cel
protamine II - bla
protamine II-2 - p
protamine II-1 - p
protamine - chicke
hypothetical prote
arginine-rich prot
hypothetical prote
probable membrane
unknown protein T9
hypothetical prote
glycosyl transfera
hypothetical prote
coat protein precu
hypothetical prote
homeotic protein C
E2 protein - human
probable inner mem
E2 protein - human
E2 protein - human
hypothetical prote
hypothetical prote
membrane protein Y
ABC transporter, A
excinuclease ABC c
structural polypro
hypothetical prote
probable resolvase
protamine TP17 - r
protamine TP16 - r
protamine - rainbo
probable antigen 1
protamine - killer
protamine - horse

103	34	60.7	49	2	S02007	protamine I - rabb	176	34	60.7	1033	2	148775	Smcx protein (esca
104	34	60.7	50	1	HSPG	sperm histone - pi	177	34	60.7	1113	2	T26954	hypothetical prote
105	34	60.7	50	1	HSSH	sperm histone - sh	178	34	60.7	1560	2	I54361	SMCX protein - hum
106	34	60.7	50	2	S22582	protamine 1 - Sagu	179	34	60.7	2318	2	S45306	notch 3 protein - h
107	34	60.7	50	2	S21672	protamine 1 - pig	180	34	60.7	2321	2	S78549	hypothetical prote
108	34	60.7	51	1	HSBOS	sperm histone p1 -	181	34	60.7	2408	2	T24483	hypothetical prote
109	34	60.7	51	1	HSMSS1	protamine - mouse	182	33-5	59.8	87	2	S00180	spermatid protein
110	34	60.7	51	2	S03997	protamine 1 - rat	183	33	58.9	30	1	IRTRC2	protamine 1a - rai
111	34	60.7	89	2	G69190	ribosomal protein	184	33	58.9	31	2	I51349	protamine - rainbo
112	34	60.7	94	2	A70752	probable rpms prot	185	33	58.9	33	2	A26762	protamine (muglin
113	34	60.7	114	1	Q4ADD2	early E4 13K prote	186	33	58.9	33	2	B26762	protamine (muglin
114	34	60.7	114	2	T30866	hypothetical prote	187	33	58.9	34	2	JN0582	protamine (scombr
115	34	60.7	115	2	S28937	hypothetical prote	188	33	58.9	43	2	D58213	protamine III - Am
116	34	60.7	129	2	S60978	probable membrane	189	33	58.9	62	2	B58213	protamine I - Amer
117	34	60.7	145	2	T36527	hypothetical prote	190	33	58.9	84	1	VKJG4	trans-regulatory s
118	34	60.7	157	2	E75530	hypothetical prote	191	33	58.9	89	2	B46356	rev protein - simi
119	34	60.7	158	2	S35787	US9 protein - bovi	192	33	58.9	104	2	A75348	conserved hypotet
120	34	60.7	167	2	E87339	hypothetical prote	193	33	58.9	106	1	G1BEP	tegument protein -
121	34	60.7	197	2	S25106	capsid protein - b	194	33	58.9	107	2	C86477	protein f1504.29 [
122	34	60.7	199	1	VCVQ83	coat protein - bar	195	33	58.9	113	2	JC1088	propionyl acylase
123	34	60.7	199	2	S10986	coat protein - bar	196	33	58.9	113	2	S66936	probable membrane
124	34	60.7	199	2	S41316	coat protein - cuc	197	33	58.9	132	2	S10305	protamine - boll w
125	34	60.7	200	2	C49600	coat protein 22k -	198	33	58.9	139	2	A24154	85K major surface
126	34	60.7	202	2	AC3318	sodium-dependent p	199	33	58.9	145	2	D72726	probable ribosomal
127	34	60.7	210	2	T28824	hypothetical prote	200	33	58.9	159	2	T10921	3C3.12 protein - S
128	34	60.7	218	1	JQ1253	coat protein - cuc	201	33	58.9	173	2	F87521	hypothetical prote
129	34	60.7	218	1	JQ1254	coat protein - cuc	202	33	58.9	180	2	B97242	hypothetical prote
130	34	60.7	218	1	JS0090	coat protein - cuc	203	33	58.9	185	2	JN0766	adrenomedullin pre
131	34	60.7	218	1	VCVX11	coat protein - cuc	204	33	58.9	194	2	T29438	hypothetical prote
132	34	60.7	218	2	T13132	coat protein - cuc	205	33	58.9	215	2	E86939	probable 50S ribos
133	34	60.7	218	2	JC6075	coat protein - cuc	206	33	58.9	215	2	B70622	probable ribosomal
134	34	60.7	218	2	S42098	coat protein - cuc	207	33	58.9	218	1	JA0136	coat protein - cuc
135	34	60.7	218	2	S58039	capsid protein - c	208	33	58.9	224	2	F69444	conserved hypotet
136	34	60.7	218	2	JC6074	coat protein - cuc	209	33	58.9	229	2	I45833	sex-determining pr
137	34	60.7	218	2	JC6073	coat protein - cuc	210	33	58.9	230	2	JQ1880	hypothetical 25.2K
138	34	60.7	218	2	S09663	coat protein - cuc	211	33	58.9	234	2	H89920	conserved hypotet
139	34	60.7	228	2	AD3326	chloramphenicol O-	212	33	58.9	281	2	AD2755	conserved hypotet
140	34	60.7	234	2	T26560	hypothetical prote	213	33	58.9	281	2	F70700	hypothetical prote
141	34	60.7	242	2	B70570	hypothetical prote	214	33	58.9	285	2	T31503	hypothetical prote
142	34	60.7	246	2	T35292	probable integral	215	33	58.9	292	2	C97536	mazG protein (AF22
143	34	60.7	259	2	T34536	hypothetical prote	216	33	58.9	298	2	JC5333	transcription fact
144	34	60.7	278	2	E87704	hypothetical prote	217	33	58.9	298	2	JC5332	transcription fact
145	34	60.7	280	2	T31152	hypothetical prote	218	33	58.9	308	2	C87582	IS511, transposase
146	34	60.7	282	2	T46541	hypothetical prote	219	33	58.9	317	2	T34228	hypothetical prote
147	34	60.7	336	2	T37159	hypothetical prote	220	33	58.9	325	2	H84616	hypothetical prote
148	34	60.7	340	2	C70743	hypothetical prote	221	33	58.9	349	1	QQB5D5	HAHFS protein - hu
149	34	60.7	373	2	A47234	homeobox protein H	222	33	58.9	373	2	T30508	hypothetical prote
150	34	60.7	380	2	T19280	hypothetical prote	223	33	58.9	379	2	B83677	phenylalanine dehy
151	34	60.7	407	2	T02258	globulini - maize	224	33	58.9	384	1	W2WL41	E2 protein - human
152	34	60.7	439	2	C96003	protein secretion	225	33	58.9	407	1	VCBB2G	coat protein precu
153	34	60.7	451	2	T35914	probable carboxype	226	33	58.9	410	2	A40505	early protein EP0
154	34	60.7	462	2	AH3621	chloride channel p	227	33	58.9	419	2	T51715	sigma-like factor
155	34	60.7	515	2	A40491	alpha-1-adrenergic	228	33	58.9	422	2	E83869	fatty acid alpha h
156	34	60.7	515	2	JC1525	alpha-1B-adrenergi	229	33	58.9	428	2	AF0046	GTP-binding protei
157	34	60.7	517	2	T25615	hypothetical prote	230	33	58.9	429	2	D82334	GTP-binding protei
158	34	60.7	539	2	H71280	hypothetical prote	231	33	58.9	432	2	D75348	gamma-glutamyl pho
159	34	60.7	552	2	F75311	ABC transporter, A	232	33	58.9	437	2	AI2908	HLyD family secret
160	34	60.7	583	2	S29961	Ref(2)Pp protein -	233	33	58.9	437	2	H97683	prase protein (Y127
161	34	60.7	590	2	S29964	Ref(2)Pn protein -	234	33	58.9	458	1	KHRZOA	oryzain (EC 3.4.22
162	34	60.7	599	2	S29963	Ref(2)Po2 protein	235	33	58.9	458	2	T37052	probable flavin-co
163	34	60.7	599	2	G60785	gene ref(2)P prote	236	33	58.9	460	2	H70924	hypothetical prote
164	34	60.7	604	2	T21624	hypothetical prote	237	33	58.9	488	2	S18156	globulin 1 - easte
165	34	60.7	646	2	AB3292	probable transport	238	33	58.9	492	2	S61242	virion serine/thre
166	34	60.7	647	2	T35931	probable gamma-glu	239	33	58.9	514	1	W2WL5	E2 protein - human
167	34	60.7	685	2	B70840	hypothetical prote	240	33	58.9	514	1	W2WL5	E2 protein - human
168	34	60.7	747	1	A57107	kinesin-related pr	241	33	58.9	524	2	JC8017	beta-galactoside a
169	34	60.7	856	2	T31234	trAc protein homol	242	33	58.9	525	2	T48824	hypothetical prote
170	34	60.7	924	2	S34926	hypothetical prote	243	33	58.9	527	2	D70595	probable ATP-depen
171	34	60.7	924	2	E87092	probable ribonucle	244	33	58.9	529	2	T45134	hypothetical prote
172	34	60.7	926	2	E83375	probable glycoeyl	245	33	58.9	548	2	H70788	probable peptidetr
173	34	60.7	926	2	B37271	A-alpha Y 3 protei	246	33	58.9	570	2	I59402	NGFI-A-binding pro
174	34	60.7	953	2	B70681	probable rne prote	247	33	58.9	573	2	JQ0135	hypothetical 62.8K
175	34	60.7	959	2	H72699	probable leucyl-tr	248	33	58.9	584	2	F75090	archaeosine trna-r

GenCore version 5.1.7
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 OM protein - protein search, using sw model
 Run on: March 15, 2006, 14:20:33 ; Search time 123.667 Seconds
 (without alignments)
 62.756 Million cell updates/sec

Title: US-10-509-620-2
 Perfect score: 56
 Sequence: 1 YGRARRRR 11

Scoring table:
 Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : UniProt 05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	47	83.9	72	2 Q75575_9HIV1	Q75575 human immun
2	46	82.1	164	2 Q69K08_ORYSA	Q69K08 oryza sativ
3	46	82.1	220	2 Q69K09_ORYSA	Q69K09 oryza sativ
4	45	80.4	228	2 Q4S2A9_TETNG	Q4S2A9 tetraodon n
5	44	78.6	194	2 Q75LY0_ORYSA	Q75LY0 oryza sativ
6	44	78.6	352	2 Q9VES1_AERPE	Q9VES1 aeropyrum p
7	44	78.6	469	2 Q86499_STRCO	Q86499 streptomyce
8	43	76.8	72	2 Q6GXY7_9HIV1	Q6GXY7 human immun
9	43	76.8	72	2 Q6GXY8_9HIV1	Q6GXY8 human immun
10	43	76.8	174	1 RL22_NANEQ	P62650 nanoarchaeu
11	43	76.8	229	2 Q69596_MYCLE	Q69596 mycobacteri
12	43	76.8	312	2 Q8RUP5_ORYSA	Q8RUP5 oryza sativ
13	43	76.8	526	2 Q4NMV8_9DEL	Q4NMV8 anaeromyxob
14	43	76.8	712	2 Q9DUC1_9VIRU	Q9DUC1 torque teno
15	43	76.8	754	2 Q80IX5_9VIRU	Q80IX5 providence
16	43	76.8	992	2 Q60G02_9REOV	Q60G02 nyabira vir
17	43	76.8	1283	2 Q4LM11_9BURK	Q4LM11 burkholderi
18	43	76.8	2147	2 Q4NUU3_9DEL	Q4NUU3 anaeromyxob
19	42	75.0	146	2 Q4FYI7_LEIMA	Q4FYI7 leishmania
20	42	75.0	293	2 Q5VMT6_ORYSA	Q5VMT6 oryza sativ
21	42	75.0	308	2 Q69PT7_ORYSA	Q69PT7 oryza sativ
22	42	75.0	613	2 Q4LQ23_9BURK	Q4LQ23 burkholderi
23	42	75.0	1241	2 Q4NZ02_9DEL	Q4NZ02 anaeromyxob
24	41	73.2	56	1 HSP1_COTJA	P14402 coturnix co
25	41	73.2	56	1 HSP1_OCTUV	P83214 octopus vil
26	41	73.2	77	1 PRT2_SEPOF	P80002 sepia offic
27	41	73.2	78	1 PRT1_SEPOF	P80001 sepia offic
28	41	73.2	78	2 Q86C60_LOLOP	Q86C60 loligo opal
29	41	73.2	79	2 Q7M4G6_LOLPE	Q7M4G6 loligo peal
30	41	73.2	91	2 P84499_STYPL	P84499 styela plic
31	41	73.2	101	2 Q71AY8_9HIV1	Q71AY8 human immun

32	41	73.2	118	2 Q7M4A3_LOLPE	Q7M4A3 loligo peal
33	41	73.2	122	2 Q6ZFX4_ORYSA	Q6ZFX4 oryza sativ
34	41	73.2	165	2 P84501_STYPL	P84501 styela plic
35	41	73.2	172	2 Q9A3H2_CAUCR	Q9A3H2 caulobacter
36	41	73.2	201	2 Q5NBS7_ORYSA	Q5NBS7 oryza sativ
37	41	73.2	729	2 Q9DWC1_RCMVM	Q9DWC1 rat cytomeg
38	40	71.4	71	2 Q72019_9HIV1	Q72019 human immun
39	40	71.4	71	2 Q8ATW5_9HIV1	Q8ATW5 human immun
40	40	71.4	95	2 Q7SAX9_NEUCR	Q7SAX9 neurospora
41	40	71.4	101	2 Q93199_9HIV1	Q93199 human immun
42	40	71.4	187	2 Q8UTP7_9HIV1	Q8UTP7 human immun
43	40	71.4	187	2 Q7YXH7_9ASCI	Q7YXH7 styela mont
44	40	71.4	200	2 Q688N1_ORYSA	Q688N1 oryza sativ
45	40	71.4	248	2 Q8VJC2_MYCTU	Q8VJC2 mycobacteri
46	40	71.4	305	2 Q82A73_STRAW	Q82A73 streptomyce
47	40	71.4	313	2 Q4RNI4_TETNG	Q4RNI4 tetraodon n
48	40	71.4	377	2 Q7XNH8_ORYSA	Q7XNH8 oryza sativ
49	40	71.4	509	2 Q63U25_BURPS	Q63U25 burkholderi
50	40	71.4	510	2 Q73XT8_MYCPA	Q73XT8 mycobacteri
51	40	71.4	533	2 Q7V686_PROMM	Q7V686 prochloroco
52	40	71.4	641	2 Q9VYI8_DROME	Q9VYI8 drosophila
53	40	71.4	732	2 Q9DUC7_9VIRU	Q9DUC7 torque teno
54	40	71.4	898	2 Q9A749_CAUCR	Q9A749 caulobacter
55	40	71.4	965	2 Q629W8_BURMA	Q629W8 burkholderi
56	40	71.4	1001	2 Q9JP94_RHOGE	Q9JP94 rhodocyclu
57	39	69.6	37	1 PRT23_SCYCA	P30258 scyllorhinu
58	39	69.6	47	2 Q7LZA7_9SAUR	Q7LZA7 chrysemy p
59	39	69.6	47	2 Q7LZA9_9SAUR	Q7LZA9 chrysemy p
60	39	69.6	52	2 Q9WSW1_9VIRU	Q9WSW1 torque teno
61	39	69.6	58	1 TAT_HVIB5	P04612 human immun
62	39	69.6	64	2 Q8V7E9_9VIRU	Q8V7E9 torque teno
63	39	69.6	64	2 Q6QAV2_9HIV1	Q6QAV2 human immun
64	39	69.6	65	2 Q75540_9HIV1	Q75540 human immun
65	39	69.6	65	2 Q75544_9HIV1	Q75544 human immun
66	39	69.6	67	2 Q8V7C8_9VIRU	Q8V7C8 torque teno
67	39	69.6	68	2 Q6QAV4_9HIV1	Q6QAV4 human immun
68	39	69.6	69	2 Q8V7F2_9VIRU	Q8V7F2 torque teno
69	39	69.6	70	2 Q66WQ1_9HIV1	Q66WQ1 human immun
70	39	69.6	71	2 Q40224_9HIV1	Q40224 human immun
71	39	69.6	71	2 Q40225_9HIV1	Q40225 human immun
72	39	69.6	71	2 Q40226_9HIV1	Q40226 human immun
73	39	69.6	71	2 Q40227_9HIV1	Q40227 human immun
74	39	69.6	71	2 Q40228_9HIV1	Q40228 human immun
75	39	69.6	71	2 Q40231_9HIV1	Q40231 human immun
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78	39	69.6	71	2 Q40234_9HIV1	Q40234 human immun
79	39	69.6	71	2 Q58PY1_9HIV1	Q58PY1 human immun
80	39	69.6	71	2 Q58Q03_9HIV1	Q58Q03 human immun
81	39	69.6	71	2 Q58Q10_9HIV1	Q58Q10 human immun
82	39	69.6	71	2 Q58Q64_9HIV1	Q58Q64 human immun
83	39	69.6	71	2 Q58Q69_9HIV1	Q58Q69 human immun
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85	39	69.6	71	2 Q5UG43_9HIV1	Q5UG43 human immun
86	39	69.6	71	2 Q5UG44_9HIV1	Q5UG44 human immun
87	39	69.6	71	2 Q5UG45_9HIV1	Q5UG45 human immun
88	39	69.6	71	2 Q5UG46_9HIV1	Q5UG46 human immun
89	39	69.6	71	2 Q5UG47_9HIV1	Q5UG47 human immun
90	39	69.6	71	2 Q5UG48_9HIV1	Q5UG48 human immun
91	39	69.6	71	2 Q5UG52_9HIV1	Q5UG52 human immun
92	39	69.6	71	2 Q5UG53_9HIV1	Q5UG53 human immun
93	39	69.6	71	2 Q5UG54_9HIV1	Q5UG54 human immun
94	39	69.6	71	2 Q5UG55_9HIV1	Q5UG55 human immun
95	39	69.6	71	2 Q5UG56_9HIV1	Q5UG56 human immun
96	39	69.6	71	2 Q5UG57_9HIV1	Q5UG57 human immun
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98	39	69.6	71	2 Q5UG59_9HIV1	Q5UG59 human immun
99	39	69.6	71	2 Q5UG60_9HIV1	Q5UG60 human immun
100	39	69.6	71	2 Q5UG61_9HIV1	Q5UG61 human immun
101	39	69.6	71	2 Q5UG62_9HIV1	Q5UG62 human immun
102	39	69.6	71	2 Q5UG64_9HIV1	Q5UG64 human immun
103	39	69.6	71	2 Q5UG65_9HIV1	Q5UG65 human immun
104	39	69.6	71	2 Q5UG66_9HIV1	Q5UG66 human immun

105	39	69.6	71	2	Q5UG67_9H1V1	Q5UG67 human	immun	178	39	69.6	71	2	Q5UG66_9H1V1	Q5UG66 human	immun
106	39	69.6	71	2	Q5UG68_9H1V1	Q5UG68 human	immun	179	39	69.6	71	2	Q5UG67_9H1V1	Q5UG67 human	immun
107	39	69.6	71	2	Q5UG71_9H1V1	Q5UG71 human	immun	180	39	69.6	71	2	Q5UG68_9H1V1	Q5UG68 human	immun
108	39	69.6	71	2	Q5UG72_9H1V1	Q5UG72 human	immun	181	39	69.6	71	2	Q5UG69_9H1V1	Q5UG69 human	immun
109	39	69.6	71	2	Q5UG73_9H1V1	Q5UG73 human	immun	182	39	69.6	71	2	Q5UG70_9H1V1	Q5UG70 human	immun
110	39	69.6	71	2	Q5UG74_9H1V1	Q5UG74 human	immun	183	39	69.6	71	2	Q5UGF1_9H1V1	Q5UGF1 human	immun
111	39	69.6	71	2	Q5UG75_9H1V1	Q5UG75 human	immun	184	39	69.6	71	2	Q5UGF2_9H1V1	Q5UGF2 human	immun
112	39	69.6	71	2	Q5UG76_9H1V1	Q5UG76 human	immun	185	39	69.6	71	2	Q5UGF3_9H1V1	Q5UGF3 human	immun
113	39	69.6	71	2	Q5UG77_9H1V1	Q5UG77 human	immun	186	39	69.6	71	2	Q5UGF4_9H1V1	Q5UGF4 human	immun
114	39	69.6	71	2	Q5UG78_9H1V1	Q5UG78 human	immun	187	39	69.6	71	2	Q5UGF5_9H1V1	Q5UGF5 human	immun
115	39	69.6	71	2	Q5UG79_9H1V1	Q5UG79 human	immun	188	39	69.6	71	2	Q5UGF6_9H1V1	Q5UGF6 human	immun
116	39	69.6	71	2	Q5UG80_9H1V1	Q5UG80 human	immun	189	39	69.6	71	2	Q5UGF8_9H1V1	Q5UGF8 human	immun
117	39	69.6	71	2	Q5UG81_9H1V1	Q5UG81 human	immun	190	39	69.6	71	2	Q5UGF9_9H1V1	Q5UGF9 human	immun
118	39	69.6	71	2	Q5UG82_9H1V1	Q5UG82 human	immun	191	39	69.6	71	2	Q5UGG0_9H1V1	Q5UGG0 human	immun
119	39	69.6	71	2	Q5UG84_9H1V1	Q5UG84 human	immun	192	39	69.6	71	2	Q5UGG1_9H1V1	Q5UGG1 human	immun
120	39	69.6	71	2	Q5UG85_9H1V1	Q5UG85 human	immun	193	39	69.6	71	2	Q5UGG2_9H1V1	Q5UGG2 human	immun
121	39	69.6	71	2	Q5UG86_9H1V1	Q5UG86 human	immun	194	39	69.6	71	2	Q5UGG3_9H1V1	Q5UGG3 human	immun
122	39	69.6	71	2	Q5UG87_9H1V1	Q5UG87 human	immun	195	39	69.6	71	2	Q5UGG4_9H1V1	Q5UGG4 human	immun
123	39	69.6	71	2	Q5UG88_9H1V1	Q5UG88 human	immun	196	39	69.6	71	2	Q5UGG5_9H1V1	Q5UGG5 human	immun
124	39	69.6	71	2	Q5UG89_9H1V1	Q5UG89 human	immun	197	39	69.6	71	2	Q5UGG6_9H1V1	Q5UGG6 human	immun
125	39	69.6	71	2	Q5UG90_9H1V1	Q5UG90 human	immun	198	39	69.6	71	2	Q5UGG7_9H1V1	Q5UGG7 human	immun
126	39	69.6	71	2	Q5UG91_9H1V1	Q5UG91 human	immun	199	39	69.6	71	2	Q5UGG9_9H1V1	Q5UGG9 human	immun
127	39	69.6	71	2	Q5UG92_9H1V1	Q5UG92 human	immun	200	39	69.6	71	2	Q5UGH3_9H1V1	Q5UGH3 human	immun
128	39	69.6	71	2	Q5UG93_9H1V1	Q5UG93 human	immun	201	39	69.6	71	2	Q5UGH4_9H1V1	Q5UGH4 human	immun
129	39	69.6	71	2	Q5UG94_9H1V1	Q5UG94 human	immun	202	39	69.6	71	2	Q5UGH5_9H1V1	Q5UGH5 human	immun
130	39	69.6	71	2	Q5UG95_9H1V1	Q5UG95 human	immun	203	39	69.6	71	2	Q5UGH6_9H1V1	Q5UGH6 human	immun
131	39	69.6	71	2	Q5UG96_9H1V1	Q5UG96 human	immun	204	39	69.6	71	2	Q5UGH7_9H1V1	Q5UGH7 human	immun
132	39	69.6	71	2	Q5UG98_9H1V1	Q5UG98 human	immun	205	39	69.6	71	2	Q5UGH8_9H1V1	Q5UGH8 human	immun
133	39	69.6	71	2	Q5UG99_9H1V1	Q5UG99 human	immun	206	39	69.6	71	2	Q5UGH9_9H1V1	Q5UGH9 human	immun
134	39	69.6	71	2	Q5UGA0_9H1V1	Q5UGA0 human	immun	207	39	69.6	71	2	Q5UGI0_9H1V1	Q5UGI0 human	immun
135	39	69.6	71	2	Q5UGA1_9H1V1	Q5UGA1 human	immun	208	39	69.6	71	2	Q66MP3_9H1V1	Q66MP3 human	immun
136	39	69.6	71	2	Q5UGA2_9H1V1	Q5UGA2 human	immun	209	39	69.6	71	2	Q66MP6_9H1V1	Q66MP6 human	immun
137	39	69.6	71	2	Q5UGA3_9H1V1	Q5UGA3 human	immun	210	39	69.6	71	2	Q66MP9_9H1V1	Q66MP9 human	immun
138	39	69.6	71	2	Q5UGA4_9H1V1	Q5UGA4 human	immun	211	39	69.6	71	2	Q66MQ3_9H1V1	Q66MQ3 human	immun
139	39	69.6	71	2	Q5UGA5_9H1V1	Q5UGA5 human	immun	212	39	69.6	71	2	Q66MQ5_9H1V1	Q66MQ5 human	immun
140	39	69.6	71	2	Q5UGA6_9H1V1	Q5UGA6 human	immun	213	39	69.6	71	2	Q66MQ7_9H1V1	Q66MQ7 human	immun
141	39	69.6	71	2	Q5UGA8_9H1V1	Q5UGA8 human	immun	214	39	69.6	71	2	Q66MQ9_9H1V1	Q66MQ9 human	immun
142	39	69.6	71	2	Q5UGA9_9H1V1	Q5UGA9 human	immun	215	39	69.6	71	2	Q66MR1_9H1V1	Q66MR1 human	immun
143	39	69.6	71	2	Q5UGB0_9H1V1	Q5UGB0 human	immun	216	39	69.6	71	2	Q66MR5_9H1V1	Q66MR5 human	immun
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151	39	69.6	71	2	Q5UGB8_9H1V1	Q5UGB8 human	immun	224	39	69.6	71	2	Q66MT1_9H1V1	Q66MT1 human	immun
152	39	69.6	71	2	Q5UGB9_9H1V1	Q5UGB9 human	immun	225	39	69.6	71	2	Q71875_9H1V1	Q71875 human	immun
153	39	69.6	71	2	Q5UGC0_9H1V1	Q5UGC0 human	immun	226	39	69.6	71	2	Q71886_9H1V1	Q71886 human	immun
154	39	69.6	71	2	Q5UGC1_9H1V1	Q5UGC1 human	immun	227	39	69.6	71	2	Q71891_9H1V1	Q71891 human	immun
155	39	69.6	71	2	Q5UGC2_9H1V1	Q5UGC2 human	immun	228	39	69.6	71	2	Q71898_9H1V1	Q71898 human	immun
156	39	69.6	71	2	Q5UGC3_9H1V1	Q5UGC3 human	immun	229	39	69.6	71	2	Q71905_9H1V1	Q71905 human	immun
157	39	69.6	71	2	Q5UGC4_9H1V1	Q5UGC4 human	immun	230	39	69.6	71	2	Q71912_9H1V1	Q71912 human	immun
158	39	69.6	71	2	Q5UGC5_9H1V1	Q5UGC5 human	immun	231	39	69.6	71	2	Q71919_9H1V1	Q71919 human	immun
159	39	69.6	71	2	Q5UGC6_9H1V1	Q5UGC6 human	immun	232	39	69.6	71	2	Q71932_9H1V1	Q71932 human	immun
160	39	69.6	71	2	Q5UGC7_9H1V1	Q5UGC7 human	immun	233	39	69.6	71	2	Q71939_9H1V1	Q71939 human	immun
161	39	69.6	71	2	Q5UGC8_9H1V1	Q5UGC8 human	immun	234	39	69.6	71	2	Q71945_9H1V1	Q71945 human	immun
162	39	69.6	71	2	Q5UGD0_9H1V1	Q5UGD0 human	immun	235	39	69.6	71	2	Q71968_9H1V1	Q71968 human	immun
163	39	69.6	71	2	Q5UGD1_9H1V1	Q5UGD1 human	immun	236	39	69.6	71	2	Q71974_9H1V1	Q71974 human	immun
164	39	69.6	71	2	Q5UGD2_9H1V1	Q5UGD2 human	immun	237	39	69.6	71	2	Q71980_9H1V1	Q71980 human	immun
165	39	69.6	71	2	Q5UGD3_9H1V1	Q5UGD3 human	immun	238	39	69.6	71	2	Q71987_9H1V1	Q71987 human	immun
166	39	69.6	71	2	Q5UGD4_9H1V1	Q5UGD4 human	immun	239	39	69.6	71	2	Q71993_9H1V1	Q71993 human	immun
167	39	69.6	71	2	Q5UGD5_9H1V1	Q5UGD5 human	immun	240	39	69.6	71	2	Q72000_9H1V1	Q72000 human	immun
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171	39	69.6	71	2	Q5UGD9_9H1V1	Q5UGD9 human	immun	244	39	69.6	71	2	Q88462_9H1V1	Q88462 human	immun
172	39	69.6	71	2	Q5UGE0_9H1V1	Q5UGE0 human	immun	245	39	69.6	71	2	Q8AIK0_9H1V1	Q8AIK0 human	immun
173	39	69.6	71	2	Q5UGB1_9H1V1	Q5UGB1 human	immun	246	39	69.6	71	2	Q8AIK1_9H1V1	Q8AIK1 human	immun
174	39	69.6	71	2	Q5UGB2_9H1V1	Q5UGB2 human	immun	247	39	69.6	71	2	Q8AIK2_9H1V1	Q8AIK2 human	immun
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176	39	69.6	71	2	Q5UGB4_9H1V1	Q5UGB4 human	immun	249	39	69.6	71	2	Q8AIK4_9H1V1	Q8AIK4 human	immun
177	39	69.6	71	2	Q5UGB5_9H1V1	Q5UGB5 human	immun	250	39	69.6	71	2	Q8AIK5_9H1V1	Q8AIK5 human	immun

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:33:59 ; Search time 29.3333 Seconds
(without alignments)
31.003 Million cell updates/sec

Title: US-10-509-620-2

Perfect score: 56

Sequence: 1 YGRRARRRR 11

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/1/iaa/5_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	44	78.6	26	1	US-08-847-176-6
2	44	78.6	161	2	US-09-252-991A-30023
3	44	78.6	229	2	US-09-252-991A-28355
4	44	78.6	882	2	US-09-413-814-78
5	43	76.8	11	2	US-09-208-966-3
6	43	76.8	11	2	US-09-775-052A-3
7	43	76.8	259	2	US-09-252-991A-20312
8	43	76.8	1213	2	US-09-413-814-79
9	42	75.0	12	1	US-08-234-979-1
10	42	75.0	12	1	US-08-473-025-1
11	42	75.0	179	2	US-09-252-991A-27201
12	42	75.0	213	2	US-09-252-991A-19029
13	41	73.2	14	2	US-10-222-595-8
14	41	73.2	401	2	US-09-252-991A-23022
15	41	73.2	642	2	US-09-252-991A-27045
16	40	71.4	11	2	US-09-208-966-7
17	40	71.4	11	2	US-09-775-052A-7
18	40	71.4	12	1	US-08-378-709-31
19	40	71.4	268	2	US-09-252-991A-25608
20	40	71.4	270	2	US-09-252-991A-27118
21	40	71.4	458	2	US-09-252-991A-32991
22	40	71.4	477	2	US-09-252-991A-25538
23	40	71.4	646	2	US-09-252-991A-23299
24	39	69.6	11	1	US-08-706-741B-54
25	39	69.6	11	1	US-08-924-695A-54
26	39	69.6	11	2	US-09-208-966-2
27	39	69.6	11	2	US-09-296-089-37

28	39	69.6	11	2	US-09-837-863-2	Sequence 2, Appli
29	39	69.6	11	2	US-09-660-742-1	Sequence 1, Appli
30	39	69.6	11	2	US-09-434-345-2	Sequence 1, Appli
31	39	69.6	11	2	US-09-632-287A-22	Sequence 22, Appli
32	39	69.6	11	2	US-09-632-277A-4	Sequence 4, Appli
33	39	69.6	11	2	US-09-612-033B-15	Sequence 15, Appli
34	39	69.6	11	2	US-09-780-070-37	Sequence 37, Appli
35	39	69.6	11	2	US-09-775-052A-2	Sequence 2, Appli
36	39	69.6	11	2	US-09-911-842A-6	Sequence 6, Appli
37	39	69.6	11	2	US-09-997-465B-2	Sequence 2, Appli
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39	39	69.6	11	2	US-09-551-976-37	Sequence 37, Appli
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OM protein - protein search, using sw model

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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Sequence 2, Appli
Sequence 5, Appli
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Sequence 28, Appl
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Sequence 11, Appl
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Sequence 12, Appl
Sequence 24740, A

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103	39	69.6	274	7	US-11-102-883-34	Sequence 34, Appl	176	35	62.5	564	7	US-11-087-099-3568	Sequence 3568, Ap
104	39	69.6	283	7	US-11-102-883-32	Sequence 32, Appl	177	34	60.7	10	6	US-10-918-638-1	Sequence 1, Appli
105	39	69.6	289	7	US-11-102-883-2	Sequence 2, Appli	178	34	60.7	10	7	US-11-045-024-10432	Sequence 10432, A
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107	39	69.6	291	7	US-11-102-883-22	Sequence 22, Appl	180	34	60.7	19	7	US-11-049-636-19	Sequence 19, Appl
108	39	69.6	292	7	US-11-102-883-24	Sequence 24, Appl	181	34	60.7	79	7	US-11-096-568A-9953	Sequence 9953, Ap
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117	39	69.6	351	7	US-11-102-883-28	Sequence 28, Appl	190	34	60.7	163	6	US-10-057-813-14	Sequence 14, Appl
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122	38	67.9	189	7	US-11-096-568A-14505	Sequence 14505, A	195	34	60.7	178	7	US-11-096-568A-11302	Sequence 11302, A
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124	37	66.1	232	7	US-11-096-568A-3487	Sequence 3487, Ap	197	34	60.7	191	7	US-11-096-568A-25824	Sequence 25824, A
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130	37	66.1	640	7	US-11-087-099-2757	Sequence 2757, Ap	203	34	60.7	234	7	US-11-096-568A-4571	Sequence 4571, Ap
131	37	66.1	647	7	US-11-075-046-50	Sequence 50, Appl	204	34	60.7	244	7	US-11-096-568A-18532	Sequence 18532, A
132	37	66.1	675	7	US-11-075-046-52	Sequence 52, Appl	205	34	60.7	248	7	US-11-096-568A-4570	Sequence 4570, Ap
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138	36	64.3	24	6	US-10-903-612B-77	Sequence 77, Appl	211	34	60.7	331	7	US-11-096-568A-346	Sequence 346, App
139	36	64.3	24	6	US-10-903-612B-78	Sequence 78, Appl	212	34	60.7	332	7	US-11-096-568A-23018	Sequence 23018, A
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141	36	64.3	25	6	US-10-903-612B-81	Sequence 81, Appl	214	34	60.7	355	7	US-11-096-568A-21768	Sequence 21768, A
142	36	64.3	25	6	US-10-903-612B-82	Sequence 82, Appl	215	34	60.7	356	7	US-11-087-099-6892	Sequence 6892, Ap
143	36	64.3	25	6	US-10-903-612B-83	Sequence 83, Appl	216	34	60.7	363	7	US-11-096-568A-23914	Sequence 23914, A
144	36	64.3	25	6	US-10-903-612B-84	Sequence 84, Appl	217	34	60.7	372	7	US-11-087-099-11703	Sequence 11703, A
145	36	64.3	375	7	US-11-096-568A-6381	Sequence 6381, Ap	218	34	60.7	381	7	US-11-096-568A-23913	Sequence 23913, A
146	36	64.3	388	7	US-11-096-568A-21838	Sequence 21838, A	219	34	60.7	391	7	US-11-096-568A-23912	Sequence 23912, A
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148	36	64.3	461	6	US-10-330-773-327	Sequence 327, App	221	34	60.7	478	6	US-10-689-742-184	Sequence 184, App
149	36	64.3	601	6	US-10-821-234-958	Sequence 958, App	222	34	60.7	478	7	US-11-096-568A-11893	Sequence 11893, A
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152	35	62.5	31	7	US-11-081-140-4	Sequence 4, Appli	225	33.5	59.8	252	7	US-11-096-568A-368	Sequence 368, App
153	35	62.5	32	7	US-11-081-140-1	Sequence 1, Appli	226	33.5	59.8	252	7	US-11-096-568A-27229	Sequence 27229, A
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155	35	62.5	101	7	US-11-048-450-8	Sequence 8, Appli	228	33.5	59.8	766	7	US-11-096-568A-19864	Sequence 19864, A
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157	35	62.5	116	7	US-11-121-438-37	Sequence 37, Appl	230	33	58.9	9	7	US-11-016-542-20	Sequence 20, Appl
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159	35	62.5	155	7	US-11-096-568A-19104	Sequence 19104, A	232	33	58.9	11	6	US-10-535-780-3	Sequence 3, Appli
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161	35	62.5	170	7	US-11-096-568A-3166	Sequence 3166, Ap	234	33	58.9	12	7	US-11-077-871-22	Sequence 22, Appl
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164	35	62.5	290	7	US-11-096-568A-9645	Sequence 9645, Ap	237	33	58.9	15	6	US-10-903-612B-97	Sequence 97, Appl
165	35	62.5	305	7	US-11-096-568A-2133	Sequence 2133, Ap	238	33	58.9	16	6	US-10-903-612B-104	Sequence 104, App
166	35	62.5	326	7	US-11-096-568A-1933	Sequence 1933, Ap	239	33	58.9	16	7	US-11-133-804-79	Sequence 79, Appl
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168	35	62.5	403	6	US-10-467-657-7066	Sequence 7066, Ap	241	33	58.9	17	6	US-10-903-612B-25	Sequence 25, Appl
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170	35	62.5	432	6	US-10-992-577-2	Sequence 2, Appli	243	33	58.9	18	6	US-10-903-612B-7	Sequence 7, Appli
171	35	62.5	432	7	US-11-223-294-37	Sequence 37, Appl	244	33	58.9	18	6	US-10-903-612B-31	Sequence 31, Appl

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:20:33 ; Search time 119 Seconds
(without alignments)
40.615 Million cell updates/sec

Title: US-10-509-620-13
Perfect score: 58
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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SUMMARIES

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2	58	100.0	11	8	ADG12880 Cytoplasm
3	54	93.1	101	8	ADO40047 Human imm
4	52	89.7	11	2	AAY25079 Transduct
5	52	89.7	11	3	RAY93548 Amino aci
6	52	89.7	11	3	AAB29420 Synthetic
7	52	89.7	11	4	AAE05279 Human imm
8	52	89.7	11	5	AAU76086 Peptide t
9	52	89.7	11	6	ABP96986 Anti-infl
10	52	89.7	11	6	ABP56079 Protein t
11	52	89.7	11	6	ABP33885 HIV-Tat s
12	52	89.7	11	7	ADN60174 Novel rec
13	52	89.7	11	8	ADG12910 Cytoplasm
14	52	89.7	11	8	ADG12868 Cytoplasm
15	52	89.7	11	8	ADI52956 PTD-7 pep
16	52	89.7	11	9	ADZ64546 HIV TAT p
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18	51	87.9	11	8	ADM57316 Modular a
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20	51	87.9	13	5	ABG95804 Cell pene
21	51	87.9	13	6	AAO16672 Cell-perm
22	51	87.9	13	6	ABB82927 R9-tat pr
23	51	87.9	13	7	ADEL1621 HIV-1R-TA
24	51	87.9	13	8	ADG78889 HIV TAT p

25	51	87.9	13	9	ADY38696 Novel pro
26	51	87.9	13	9	ADZ59925 Protein t
27	51	87.9	15	5	AAO20442 N-termina
28	51	87.9	16	8	ADN48963 Leader se
29	51	87.9	19	6	ABR61958 Carrier p
30	51	87.9	19	6	ABR61956 Carrier p
31	51	87.9	24	9	AEA01826 Membrane
32	51	87.9	26	7	ADEL1608 HIV-1 p6
33	51	87.9	26	7	ADEL1607 HIV-1 p6
34	51	87.9	38	8	ADO44520 Human GLP
35	51	87.9	49	8	ABO57271 Human pol
36	51	87.9	54	4	AAO08467 Human pol
37	51	87.9	56	4	ABG11732 Novel hum
38	51	87.9	57	4	ABR42642 Peptide #
39	51	87.9	57	4	AAAM36456 Peptide #
40	51	87.9	57	4	AAAB2958 Human imm
41	51	87.9	57	4	ABB25988 Protein #
42	51	87.9	57	4	AAAM76347 Human bon
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73	51	87.9	96	4	ABG26490 Novel hum
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81	51	87.9	99	4	ABG52224 Human liv
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83	51	87.9	99	5	ABG40200 Human pep
84	51	87.9	109	4	ABG26507 Novel hum
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87	51	87.9	137	4	ABG28885 Novel hum
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89	51	87.9	140	4	ABG26498 Human hum
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91	51	87.9	152	4	ABG26522 Novel hum
92	51	87.9	164	4	ADMI19992 Protein e
93	51	87.9	176	9	AEA13749 Human alp
94	51	87.9	177	5	ABU67203 G-protein
95	51	87.9	177	6	ABP53984 Human adr
96	51	87.9	177	8	ADO28724 Human alp
97	51	87.9	177	8	ADO5228 Adrenergi

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99	51	87.9	177	9	ADY83779	Ady83779 Alpha-1B-	172	48	82.8	11	4	AAB85847	Aab85847 HIV-1 tat
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101	51	87.9	215	4	ABG26528	Abg26528 Novel hum	174	48	82.8	11	5	AAB76115	Aau76115 Peptide t
102	51	87.9	218	4	ABG26514	Abg26514 Novel hum	175	48	82.8	11	5	AAB77483	Aau77483 HIV-1 tat
103	51	87.9	232	8	ADx66930	Adx66930 Plant ful	176	48	82.8	11	5	ABG78986	Abg78986 Cell pene
104	51	87.9	240	8	ADx90348	Adx90348 Plant ful	177	48	82.8	11	5	AAE18125	Aae18125 Human imm
105	51	87.9	259	8	ADY13434	Ady13434 Plant ful	178	48	82.8	11	5	AAE18125	Aae18125 Human imm
106	51	87.9	293	8	ADX91511	Adx91511 Plant ful	179	48	82.8	11	5	ABB74239	Aab74239 HIV Tat f
107	51	87.9	312	8	ADU02402	Adu02402 Novel hum	180	48	82.8	11	5	AAE23080	Aae23080 HIV tat p
108	51	87.9	356	8	ADY05238	Ady05238 Plant ful	181	48	82.8	11	5	ABB82413	Abb82413 HIV-1 pep
109	51	87.9	405	4	ABG26543	Abg26543 Novel hum	182	48	82.8	11	5	ABP51634	Abp51634 HIV tat p
110	51	87.9	465	8	ADx72457	Adx72457 Plant ful	183	48	82.8	11	5	AAE20790	Aae20790 Human imm
111	51	87.9	473	4	ABG28889	Abg28889 Novel hum	184	48	82.8	11	5	AAU75548	Aau75548 Human imm
112	51	87.9	483	8	ADY07682	Ady07682 Plant ful	185	48	82.8	11	5	ABB05786	Abb05786 HIV tat r
113	51	87.9	517	3	AAy57169	AAy57169 Sequence	186	48	82.8	11	5	ABB07211	Abb07211 Amino aci
114	51	87.9	517	7	ADH51576	Adh51576 Human G-p	187	48	82.8	11	5	AAU78967	Aau78967 Tat pepti
115	51	87.9	519	7	ADd18906	AdD18906 Human dis	188	48	82.8	11	5	AAU77222	Aau77222 HIV tat p
116	51	87.9	519	8	ADo29167	ADo29167 Human GPC	189	48	82.8	11	5	AAm47460	Aam47460 HIV tat p
117	51	87.9	520	2	AAR53072	Aar53072 Alpha 1b	190	48	82.8	11	5	AAE18343	Aae18343 Human imm
118	51	87.9	520	2	AAR52831	Aar52831 Sequence	191	48	82.8	11	5	ABB84578	Abb84578 HIV Tat p
119	51	87.9	520	2	AAB59663	Aab59663 Human alp	192	48	82.8	11	5	ABG95820	Abg95820 Cell pene
120	51	87.9	520	2	AAR85943	Aar85943 Alpha-1B	193	48	82.8	11	5	AAm48622	Aam48622 Anti-infl
121	51	87.9	520	6	ABP81777	Abp81777 Human alp	194	48	82.8	11	5	AAm48621	Aam48621 Anti-infl
122	51	87.9	673	7	ADK40904	Adk40904 Novel hum	195	48	82.8	11	5	AAE18833	Aae18833 Protein t
123	51	87.9	673	8	ADr15608	Adr15608 Kinase 37	196	48	82.8	11	5	AAU79799	Aau79799 Peptide s
124	51	87.9	784	4	ABG05220	Abg05220 Novel hum	197	48	82.8	11	5	AAU11033	Aau11033 Human imm
125	51	87.9	784	4	ABG25763	Abg25763 Novel hum	198	48	82.8	11	5	AAE21137	Aae21137 HIV Tat p
126	51	87.9	894	5	AAO20441	Aao20441 Protein o	199	48	82.8	11	5	AAm48194	Aam48194 HIV Tat p
127	50	86.2	11	8	ADG12881	Adg12881 Cytoplasm	200	48	82.8	11	5	AAE16487	Aae16487 Human imm
128	50	86.2	11	8	ADG12914	Adg12914 Cytoplasm	201	48	82.8	11	5	ADG27654	Adg27654 Human LGR
129	50	86.2	158	8	ADY06853	Ady06853 Plant ful	202	48	82.8	11	6	AAO16343	Aao16343 Human imm
130	49	84.5	12	2	AAR44186	Aar44186 Anti-herp	203	48	82.8	11	6	AAE35420	Aae35420 HIV tat p
131	49	84.5	12	2	AAR44187	Aar44187 Anti-herp	204	48	82.8	11	6	ABP57917	Abp57917 Human imm
132	49	84.5	101	9	ADx40349	Adx40349 HIV Tat p	205	48	82.8	11	6	ABB99504	Abb99504 Amino aci
133	49	84.5	101	9	ADx40300	Adx40300 HIV Tat p	206	48	82.8	11	6	ABP71286	Abp71286 Tat-deriv
134	49	84.5	197	7	ABO81646	ABo81646 Pseudomon	207	48	82.8	11	6	ABG76123	Abg76123 Tat-deriv
135	49	84.5	239	4	ABG00339	ABg00339 Novel hum	208	48	82.8	11	6	ABU09580	Abu09580 Cell perm
136	48	82.8	11	2	AAW50263	Aaw50263 HIV-1 tat	209	48	82.8	11	6	ABP96989	Abp96989 Anti-infl
137	48	82.8	11	2	AAy05415	AAy05415 Tat pepti	210	48	82.8	11	6	ABP97352	Abp97352 Tat fragm
138	48	82.8	11	2	AAy25075	AAy25075 Tat trans	211	48	82.8	11	6	ABP56074	Abp56074 Tat trans
139	48	82.8	11	3	AAy27088	AAy27088 Beta-cate	212	48	82.8	11	6	AAE35355	Aae35355 HIV type
140	48	82.8	11	3	ABO09907	ABo09907 HIV tat p	213	48	82.8	11	6	AAE33880	Aae33880 Human imm
141	48	82.8	11	3	AAy93542	AAy93542 Amino aci	214	48	82.8	11	6	ABG74845	Abg74845 HIV Tat p
142	48	82.8	11	3	AAy71015	AAy71015 Human imm	215	48	82.8	11	6	AAO16688	Aao16688 HIV cell-
143	48	82.8	11	3	AAAB35698	AAab35698 Peptide a	216	48	82.8	11	6	ABP70229	Abp70229 Membrane
144	48	82.8	11	3	AAE033961	AAe033961 Minimal e	217	48	82.8	11	6	ABG72698	Abg72698 HIV tat p
145	48	82.8	11	3	AAAB03961	AAab03961 Protein t	218	48	82.8	11	6	AAO26515	Aao26515 FITC-cons
146	48	82.8	11	3	AAAB29413	AAab29413 HIV Tat t	219	48	82.8	11	6	AAE33579	Aae33579 Human imm
147	48	82.8	11	3	AAAB03932	AAab03932 HIV prote	220	48	82.8	11	6	AAE36378	Aae36378 Human imm
148	48	82.8	11	4	AAAB71757	AAab71757 HIV Tat p	221	48	82.8	11	6	ABP57670	Abp57670 HIV tat r
149	48	82.8	11	4	AAAB71756	AAab71756 NTR3 deri	222	48	82.8	11	6	ABR61934	Abr61934 Tat pepti
150	48	82.8	11	4	AAAB60006	AAab60006 Internali	223	48	82.8	11	6	ABR61953	Abr61953 Tat pepti
151	48	82.8	11	4	AAE05268	AAe05268 Human imm	224	48	82.8	11	6	ADA61897	Ada61897 NFKB esse
152	48	82.8	11	4	AAE02973	AAe02973 Protein t	225	48	82.8	11	6	ADA61898	Ada61898 NFKB esse
153	48	82.8	11	4	AAE03418	AAe03418 Human imm	226	48	82.8	11	6	ADA45194	Ada45194 HIV Tat p
154	48	82.8	11	4	AAE03815	AAe03815 HIV tat p	227	48	82.8	11	6	ADA50142	Ada50142 HIV-TAT p
155	48	82.8	11	4	AAAB98683	AAab98683 HIV Tat p	228	48	82.8	11	6	ADA61217	Ada61217 HIV tat p
156	48	82.8	11	4	AAAB73305	AAab73305 HIV-1 TAT	229	48	82.8	11	6	ADR82379	Adr82379 Peptide f
157	48	82.8	11	4	AAAG70458	AAag70458 Human G2	230	48	82.8	11	6	AAO30117	Aao30117 HIV tat p
158	48	82.8	11	4	AAAG68376	AAag68376 Human Chk	231	48	82.8	11	7	AAO88841	AAo88841 Antennape
159	48	82.8	11	4	AAAG65673	AAag65673 HIV tat p	232	48	82.8	11	7	ABR84578	Abr84578 HIV Tat p
160	48	82.8	11	4	AAE12605	AAe12605 Human imm	233	48	82.8	11	7	AAE386677	Aae386677 HIV Tat d
161	48	82.8	11	4	AAAB67673	AAab67673 Transduct	234	48	82.8	11	7	ADB90670	Adb90670 Internali
162	48	82.8	11	4	AAE03730	AAe03730 Protein t	235	48	82.8	11	7	ADB99525	Adb99525 Tat pepti
163	48	82.8	11	4	AAAM50221	AAam50221 HIV-1 tat	236	48	82.8	11	7	ABR82753	Abr82753 Amino aci
164	48	82.8	11	4	AAAU09932	AAau09932 Human imm	237	48	82.8	11	7	ADC21309	Adc21309 HIV-1 TAT
165	48	82.8	11	4	AAE12891	AAe12891 Human imm	238	48	82.8	11	7	ADC21301	Adc21301 HIV-1 TAT
166	48	82.8	11	4	AAE13064	AAe13064 Protein t	239	48	82.8	11	7	ADC35032	Adc35032 HIV Tat-p
167	48	82.8	11	4	AAAB69170	AAab69170 HIV tat p	240	48	82.8	11	7	ADC42891	Adc42891 HIV tat p
168	48	82.8	11	4	AAAB70481	AAab70481 HIV Tat p	241	48	82.8	11	7	ADD57130	Add57130 HLA bindi
169	48	82.8	11	4	AAAU09812	AAau09812 HIV-1 tat	242	48	82.8	11	7	ADD21430	Add21430 HIV-1 TAT
170	48	82.8	11	4	AAE04300	AAe04300 Human Imm	243	48	82.8	11	7	ADD21430	Add21430 HIV-1 TAT
					AAe12204	Membrane							

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:27:23 ; Search time 19.6667 Seconds
(without alignments)
53.816 Million cell updates/sec

Title: US-10-509-620-13
Perfect score: 58
Sequence: 1 YGRRRRRRRR 11

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : PIR_80.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	53	91.4	57	A34356	protamine - Japan
2	51	87.9	37	S29829	protamine Z3 - sma
3	51	87.9	47	P58208	protamine II-5 - p
4	51	87.9	47	P58208	protamine II-4 - p
5	51	87.9	294	E87538	hypothetical prote
6	51	87.9	417	E30341	alpha-1-adrenergic
7	51	87.9	517	A45121	alpha-1B adrenergic
8	50	86.2	78	A40973	spermatid-specific
9	50	86.2	79	S56116	spermatid-specific
10	50	86.2	118	S56117	spermatid-specific
11	48	82.8	71	T09384	trans-activating t
12	48	82.8	72	TN1JH4	trans-activating t
13	48	82.8	86	1	TN1JH4
14	48	82.8	86	2	A25700
15	48	82.8	86	2	JC5531
16	48	82.8	86	2	S54381
17	48	82.8	86	2	S33982
18	48	82.8	87	2	T01665
19	48	82.8	95	1	TN1J12
20	48	82.8	101	1	E44001
21	48	82.8	101	2	T09446
22	47	81.0	62	2	A34326
23	47	81.0	234	2	S27956
24	47	81.0	472	2	A26357
25	46.5	80.2	58	2	S34045
26	46	79.3	145	2	T36527
27	46	79.3	234	2	T26560
28	46	79.3	515	2	A40491
29	46	79.3	515	2	JC1525

30	46	79.3	924	2	B87092	probable ribonucle
31	46	79.3	953	2	B70681	hypothetical prote
32	46	79.3	1193	2	A86193	hypothetical prote
33	45	77.6	43	2	D58213	protamine III - Am
34	45	77.6	45	2	C58208	protamine II-2 - p
35	45	77.6	45	2	B58208	protamine II-3 - p
36	45	77.6	45	2	B58208	protamine II-1 - p
37	45	77.6	58	2	A58208	protamine I-1 - pa
38	45	77.6	62	2	B58213	protamine I - Amer
39	45	77.6	77	2	B40973	spermatid-specific
40	45	77.6	86	1	TN1JND	trans-activating t
41	45	77.6	91	2	A59493	protamine P2 - Sty
42	45	77.6	107	2	C86477	protein F1504.29 [
43	45	77.6	113	2	S66936	probable membrane
44	45	77.6	165	2	A59492	hypothetical prote
45	45	77.6	180	2	B97242	conserved hypotet
46	45	77.6	224	2	F69444	probable ATP-depen
47	45	77.6	527	2	D70595	hypothetical prote
48	45	77.6	840	2	S48975	homeotic protein C
49	45	77.6	975	2	S33121	kinase-related pro
50	45	77.6	2554	1	TVFF7L	ribonuclease, Rne/
51	44	75.9	898	2	H87481	protamine Z2 - sma
52	43	74.1	46	2	A18865	protamine - chicke
53	42	72.4	65	1	GACH	coat protein - cuc
54	42	72.4	139	2	S41316	Mut/nudix family
55	42	72.4	250	2	H75504	sigma-like factor
56	42	72.4	419	2	T51715	small nuclear ribo
57	42	72.4	462	2	A57120	hypothetical prote
58	42	72.4	505	2	F71404	panicle-binding
59	42	72.4	885	2	S76357	ribonuclease E / z
60	42	72.4	891	2	AC3384	hypothetical prote
61	42	72.4	924	2	S34926	ribonuclease E, RN
62	42	72.4	973	2	A97522	ribonuclease E (im
63	42	72.4	977	2	AC2741	protamine II - bla
64	41	70.7	41	2	H58208	protamine I - blac
65	41	70.7	41	2	G58208	orf B downstream o
66	41	70.7	85	2	H45557	variant surface gl
67	41	70.7	90	2	B32986	probable nef prote
68	41	70.7	124	1	ASLJF2	rev protein - feli
69	41	70.7	148	2	JQ2384	splicing factor SF
70	41	70.7	221	2	A42701	PR264 protein - ch
71	41	70.7	221	2	B42701	U2 snRNP auxiliary
72	41	70.7	240	2	A46179	minor core protein
73	41	70.7	368	1	FOADM5	minor core protein
74	41	70.7	369	1	FOADM2	protein F3F19.23 [
75	41	70.7	435	2	E86266	hypothetical prote
76	41	70.7	886	2	S07132	hypothetical prote
77	40	69.0	50	2	S22582	protamine 1 - Sagu
78	40	69.0	59	2	S39424	protamine P1 - Aus
79	40	69.0	100	1	TN1J51	trans-activating t
80	40	69.0	103	2	S12158	rev protein - huma
81	40	69.0	132	2	S10305	protamine - boll w
82	40	69.0	208	1	VCVOL2	coat protein - pot
83	40	69.0	208	1	VCVQWA	coat protein - pot
84	40	69.0	208	2	S24593	hypothetical prote
85	40	69.0	208	2	S41878	coat protein - pot
86	40	69.0	208	2	S41874	coat protein - pot
87	40	69.0	241	2	S53812	BmGATA beta isofor
88	40	69.0	327	2	S53811	BmGATA beta isofor
89	40	69.0	373	2	A47234	homeobox protein H
90	40	69.0	376	2	E70361	chaperone DnaJ - A
91	40	69.0	407	1	VCBBFH	coat protein precu
92	40	69.0	509	2	A53741	transcription fact
93	40	69.0	517	2	A48250	U2AF-homologous pr
94	40	69.0	616	2	JQ1441	hypothetical 67K p
95	40	69.0	716	1	WMVQ53	80K protein - pota
96	40	69.0	747	1	A57107	kinasin-related pr
97	40	69.0	1733	1	B45344	probable nuclear a
98	39.5	68.1	1958	2	B40505	hypothetical prote
99	39.5	68.1	143	1	HSUR6P	histone H2B.2, spe
100	39.5	68.1	144	1	HSURB1	histone H2B.2, spe
101	39.5	68.1	148	1	HSUR8P	histone H2B.3, spe
102	39	67.2	21	2	PN0082	sperm chromatin pr

103	39	67.2	30	1	CLHR2A	protamine YII - At	176	37	63.8	100	2	T11558	rev protein - simi
104	39	67.2	30	1	CLHR2	protamine YII - Pa	177	37	63.8	101	2	T11565	rev protein - simi
105	104	67.2	31	1	CLHR2	protamine Z - Paci	178	37	63.8	107	2	A29995	protamine P2 precu
106	39	67.2	31	1	CLHR2A	protamine Z - Atla	179	37	63.8	123	2	S01619	histone H2B, embry
107	39	67.2	48	2	S29973	protamine 1 - guin	180	37	63.8	139	2	S53638	protein kinase clk
108	39	67.2	50	1	HSSH	sperm histone - sh	181	37	63.8	144	2	F70895	probable PE protei
109	39	67.2	51	1	HSBOS	sperm histone p1 -	182	37	63.8	148	1	QQBE25	BERF3 protein - hu
110	39	67.2	56	2	C58213	protamine II - Ame	183	37	63.8	172	2	F87649	Exbd/TolR family p
111	39	67.2	115	2	S28937	protamine 2 precu	184	37	63.8	200	2	C49600	coat protein 22k -
112	39	67.2	126	2	S58321	probable membrane	185	37	63.8	235	2	F87593	hypothetical prote
113	39	67.2	129	2	T05474	hypothetical prote	186	37	63.8	239	2	T02984	myb-related protei
114	39	67.2	143	1	HSURB2	histone H2B.2, spe	187	37	63.8	251	2	H87246	conserved hypothet
115	39	67.2	218	1	QJ1252	coat protein - cuc	188	37	63.8	285	2	S53710	ribonucleoprotein
116	39	67.2	218	1	QJ1254	coat protein - cuc	189	37	63.8	316	2	S16681	homeotic protein -
117	39	67.2	218	1	JS0090	coat protein - cuc	190	37	63.8	320	2	P96745	unknown protein T9
118	39	67.2	218	1	VCVX11	coat protein - cuc	191	37	63.8	338	2	B96789	protein T23E18.4 l
119	39	67.2	218	2	D71392	coat protein - cuc	192	37	63.8	363	2	A48338	hypothetical prote
120	39	67.2	218	2	JC6075	coat protein - cuc	193	37	63.8	397	2	A33880	syndecan 2 - human
121	39	67.2	218	2	S42098	coat protein - cuc	194	37	63.8	407	2	T02258	globulin1 - maize
122	39	67.2	218	2	S58039	capsid protein - c	195	37	63.8	439	2	G88103	protein W10G11.17
123	39	67.2	218	2	JC6073	coat protein - cuc	196	37	63.8	452	2	S36482	E2 protein - human
124	39	67.2	218	2	JC6073	coat protein - cuc	197	37	63.8	499	2	S53637	protein kinase clk
125	39	67.2	218	2	S09663	coat protein - cuc	198	37	63.8	506	1	W2WL47	E2 protein - human
126	39	67.2	225	2	F64422	ribosomal protein	199	37	63.8	575	2	S59740	NRD1 protein - yea
127	39	67.2	336	2	T37159	hypothetical prote	200	37	63.8	640	1	QQBEU2	UL35 protein - hum
128	39	67.2	402	2	T04348	endosperm specific	201	37	63.8	707	2	JC2218	procollagen C-endo
129	39	67.2	493	2	T48219	hypothetical prote	202	37	63.8	714	2	A70807	hypothetical glyci
130	39	67.2	525	2	T48824	hypothetical prote	203	37	63.8	992	2	A31666	hypothetical prote
131	39	67.2	529	2	T45134	hypothetical prote	204	37	63.8	1026	2	T28968	hypothetical prote
132	39	67.2	621	2	S55330	fragile X mental r	205	37	63.8	1069	2	S27922	nuclear antigen EB
133	39	67.2	673	2	S60173	fragile X mental r	206	37	63.8	1086	2	T18523	integrin alpha cha
134	39	67.2	770	2	G88445	protein C26B6.2 [i	207	37	63.8	1132	2	B82538	ribonuclease E XF2
135	39	67.2	831	2	S39835	hypothetical prote	208	37	63.8	1160	2	F88369	protein unc-52 [im
136	38	65.5	33	2	D21211	protamine TP17 - r	209	37	63.8	1173	2	T42719	TPR-containing/SH2
137	38	65.5	33	2	C21211	protamine TP16 - r	210	37	63.8	1173	2	T31421	C-terminal domain-
138	38	65.5	33	2	T01070	protamine - rainbo	211	37	63.8	1369	1	JC4860	protein-tyrosine k
139	38	65.5	41	2	A58213	protamine - green	212	37	63.8	2476	2	T34022	zonadhesin - pig
140	38	65.5	52	2	PN0081	sperm chromatin pr	213	36	62.1	27	1	HSRAC	protamine B - Russ
141	38	65.5	71	2	T51537	hypothetical prote	214	36	62.1	51	1	HSRUP1	sperm histone p1 l
142	38	65.5	147	2	S28698	hypothetical prote	215	36	62.1	100	2	S53097	rev protein - huma
143	38	65.5	157	2	S75530	hypothetical prote	216	36	62.1	102	2	S33335	protamine P2 - com
144	38	65.5	158	2	S35787	US9 protein - bovi	217	36	62.1	103	1	VKLJGG	trans-regulatory s
145	38	65.5	167	2	E87339	hypothetical prote	218	36	62.1	104	2	S53118	protamine p2 - com
146	38	65.5	185	2	JN0684	adrenomedullin pre	219	36	62.1	106	1	G1B8PR	tegument protein -
147	38	65.5	185	2	JN0766	adrenomedullin pre	220	36	62.1	110	2	F75034	hypothetical prote
148	38	65.5	188	2	S41600	adrenomedullin - p	221	36	62.1	125	2	C86490	P28222.5 protein -
149	38	65.5	211	2	S26078	ribosomal protein	222	36	62.1	131	2	B87528	transcription regu
150	38	65.5	251	2	T04334	ribosomal protein	223	36	62.1	133	1	F45345	trans-regulatory s
151	38	65.5	278	2	E87704	hypothetical prote	224	36	62.1	137	2	S12843	core antigen - duc
152	38	65.5	280	1	C70784	probable dihome cy	225	36	62.1	176	2	T42179	hypothetical prote
153	38	65.5	305	1	NKVLD	core antigen - duc	226	36	62.1	181	2	B84567	probable RING zinc
154	38	65.5	305	1	NKVLD	core antigen - duc	227	36	62.1	194	2	T17381	vrlB protein - Dic
155	38	65.5	305	1	NKVLD	core antigen - duc	228	36	62.1	203	2	T35866	probable integral
156	38	65.5	325	2	H84616	hypothetical prote	229	36	62.1	214	2	B86156	hypothetical prote
157	38	65.5	352	2	G72747	hypothetical prote	230	36	62.1	219	1	TEBE66	tegument protein -
158	38	65.5	396	2	T35659	probable transemb	231	36	62.1	219	1	TEBEKA	tegument protein -
159	38	65.5	473	2	T04218	hypothetical prote	232	36	62.1	220	1	TEBE12	tegument protein -
160	38	65.5	504	2	C86428	hypothetical prote	233	36	62.1	220	2	T42619	tegument protein -
161	38	65.5	823	2	T02959	kaurene synthase A	234	36	62.1	221	2	T02086	zinc inducible pro
162	38	65.5	847	2	AH0636	periplasmic glucan	235	36	62.1	249	2	H97161	cell division sept
163	38	65.5	1469	2	T09219	basal transcriptio	236	36	62.1	289	2	T08176	glucose-1-phosphat
164	38	65.5	2318	2	S45306	notch 3 protein -	237	36	62.1	302	2	S36615	C/X fusion protein
165	38	65.5	2321	2	S78549	notch3 protein - h	238	36	62.1	305	1	NKVLD	core antigen - duc
166	38	63.8	27	1	SRAPAS	protamine A - stel	239	36	62.1	305	1	NKVLDH	core antigen - her
167	37	63.8	49	2	S00228	protamine - horse	240	36	62.1	333	2	H95304	TRM24 transposase
168	37	63.8	49	2	S02007	protamine I - rabb	241	36	62.1	333	2	G95401	TRM24 probable tra
169	37	63.8	50	1	HSPG	sperm histone - pi	242	36	62.1	333	2	H95327	TRM24 transposase
170	37	63.8	50	2	S21672	protamine 1 - pig	243	36	62.1	346	2	H84498	hypothetical prote
171	37	63.8	51	1	HSM851	protamine - mouse	244	36	62.1	382	2	S36476	E2 protein - human
172	37	63.8	51	2	S03997	protamine 1 - rat	245	36	62.1	404	2	T75050	hypothetical prote
173	37	63.8	53	4	S16048	probable plin Ngr	246	36	62.1	411	2	T04878	hypothetical prote
174	37	63.8	92	2	S13132	protamine 2 precu	247	36	62.1	414	2	AE1249	competence-damage
175	37	63.8	92	2	D69218	conserved hypothet	248	36	62.1	415	2	AI1611	competence-damage

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:20:33 ; Search time 123.667 Seconds
(without alignments)
62.756 Million cell updates/sec

Title: US-10-509-620-13

Perfect score: 58

Sequence: 1 YGRRRRRRRR 11

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : UniProt 05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	53	91.4	56	1	HSP1_CORJA
2	52	89.7	72	2	Q6GX77_H9IV1
3	52	89.7	72	2	Q6GX78_H9IV1
4	51	87.9	37	1	PRT23_SCYCA
5	51	87.9	47	2	Q7LZA7_9SAUR
6	51	87.9	47	2	Q7LZA9_9SAUR
7	51	87.9	64	2	Q8V7E9_9VIRU
8	51	87.9	72	2	Q85987_H9IV1
9	51	87.9	72	2	Q86045_H9IV1
10	51	87.9	144	2	Q4RD18_TETNG
11	51	87.9	147	2	Q6ZDH4_ORYSA
12	51	87.9	169	2	Q8D5G1_MOUSE
13	51	87.9	195	2	Q8IH45_DROME
14	51	87.9	222	2	Q9GNJ5_CAEL
15	51	87.9	248	2	Q9U2Q5_CAEL
16	51	87.9	294	2	Q9A5W3_CAUCR
17	51	87.9	416	2	Q91TH8_TUHV1
18	51	87.9	417	1	ADALB_CANFA
19	51	87.9	456	2	Q4RW40_TETNG
20	51	87.9	518	2	Q9MY18_RABIT
21	51	87.9	519	1	ADALB_HUMAN
22	51	87.9	649	2	Q5VR79_ORYSA
23	51	87.9	680	2	Q8V7I4_9VIRU
24	51	87.9	792	2	Q7XU00_ORYSA
25	51	87.9	892	2	Q5FQ76_GLUOX
26	50	86.2	78	1	PRT1_SEPOF
27	50	86.2	78	2	Q86C50_LOLOP
28	50	86.2	79	2	Q7M4G6_LOLOP
29	50	86.2	118	2	Q7M4A3_LOLOP
30	49	84.5	171	2	Q8ATW5_H9IV1
31	49	84.5	101	2	Q93199_H9IV1

32	49	84.5	101	2	Q8UT97_H9IV1	Q8utp7 human immu
33	49	84.5	520	2	Q571J9_MOUSE	Q571j9 mus musculu
34	48	82.8	58	1	TAT_HVIBS	P04612 human immu
35	48	82.8	64	2	Q6QAV2_H9IV1	Q6gav2 human immu
36	48	82.8	65	2	Q75540_H9IV1	Q75540 human immu
37	48	82.8	65	2	Q75544_H9IV1	Q75544 human immu
38	48	82.8	68	2	Q6QAV4_H9IV1	Q6gav4 human immu
39	48	82.8	70	2	Q66MQ1_H9IV1	Q66mq1 human immu
40	48	82.8	71	2	Q40224_H9IV1	O40224 human immu
41	48	82.8	71	2	O40225_H9IV1	O40225 human immu
42	48	82.8	71	2	O40226_H9IV1	O40226 human immu
43	48	82.8	71	2	O40227_H9IV1	O40227 human immu
44	48	82.8	71	2	O40228_H9IV1	O40228 human immu
45	48	82.8	71	2	O40231_H9IV1	O40231 human immu
46	48	82.8	71	2	O40232_H9IV1	O40232 human immu
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48	48	82.8	71	2	O40234_H9IV1	O40234 human immu
49	48	82.8	71	2	O58PV1_H9IV1	Q58pv1 human immu
50	48	82.8	71	2	Q58Q03_H9IV1	Q58q03 human immu
51	48	82.8	71	2	Q58Q10_H9IV1	Q58q10 human immu
52	48	82.8	71	2	Q58Q64_H9IV1	Q58q64 human immu
53	48	82.8	71	2	Q58Q69_H9IV1	Q58q69 human immu
54	48	82.8	71	2	Q5G7E5_H9IV1	Q5g7e5 human immu
55	48	82.8	71	2	Q5G43_H9IV1	Q5g43 human immu
56	48	82.8	71	2	Q5G44_H9IV1	Q5g44 human immu
57	48	82.8	71	2	Q5G45_H9IV1	Q5g45 human immu
58	48	82.8	71	2	Q5G46_H9IV1	Q5g46 human immu
59	48	82.8	71	2	Q5G47_H9IV1	Q5g47 human immu
60	48	82.8	71	2	Q5G48_H9IV1	Q5g48 human immu
61	48	82.8	71	2	Q5G52_H9IV1	Q5g52 human immu
62	48	82.8	71	2	Q5G53_H9IV1	Q5g53 human immu
63	48	82.8	71	2	Q5G54_H9IV1	Q5g54 human immu
64	48	82.8	71	2	Q5G55_H9IV1	Q5g55 human immu
65	48	82.8	71	2	Q5G56_H9IV1	Q5g56 human immu
66	48	82.8	71	2	Q5G57_H9IV1	Q5g57 human immu
67	48	82.8	71	2	Q5G58_H9IV1	Q5g58 human immu
68	48	82.8	71	2	Q5G59_H9IV1	Q5g59 human immu
69	48	82.8	71	2	Q5G60_H9IV1	Q5g60 human immu
70	48	82.8	71	2	Q5G61_H9IV1	Q5g61 human immu
71	48	82.8	71	2	Q5G62_H9IV1	Q5g62 human immu
72	48	82.8	71	2	Q5G64_H9IV1	Q5g64 human immu
73	48	82.8	71	2	Q5G65_H9IV1	Q5g65 human immu
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75	48	82.8	71	2	Q5G67_H9IV1	Q5g67 human immu
76	48	82.8	71	2	Q5G68_H9IV1	Q5g68 human immu
77	48	82.8	71	2	Q5G71_H9IV1	Q5g71 human immu
78	48	82.8	71	2	Q5G72_H9IV1	Q5g72 human immu
79	48	82.8	71	2	Q5G73_H9IV1	Q5g73 human immu
80	48	82.8	71	2	Q5G74_H9IV1	Q5g74 human immu
81	48	82.8	71	2	Q5G75_H9IV1	Q5g75 human immu
82	48	82.8	71	2	Q5G76_H9IV1	Q5g76 human immu
83	48	82.8	71	2	Q5G77_H9IV1	Q5g77 human immu
84	48	82.8	71	2	Q5G78_H9IV1	Q5g78 human immu
85	48	82.8	71	2	Q5G79_H9IV1	Q5g79 human immu
86	48	82.8	71	2	Q5G80_H9IV1	Q5g80 human immu
87	48	82.8	71	2	Q5G81_H9IV1	Q5g81 human immu
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89	48	82.8	71	2	Q5G84_H9IV1	Q5g84 human immu
90	48	82.8	71	2	Q5G85_H9IV1	Q5g85 human immu
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92	48	82.8	71	2	Q5G87_H9IV1	Q5g87 human immu
93	48	82.8	71	2	Q5G88_H9IV1	Q5g88 human immu
94	48	82.8	71	2	Q5G89_H9IV1	Q5g89 human immu
95	48	82.8	71	2	Q5G90_H9IV1	Q5g90 human immu
96	48	82.8	71	2	Q5G91_H9IV1	Q5g91 human immu
97	48	82.8	71	2	Q5G92_H9IV1	Q5g92 human immu
98	48	82.8	71	2	Q5G93_H9IV1	Q5g93 human immu
99	48	82.8	71	2	Q5G94_H9IV1	Q5g94 human immu
100	48	82.8	71	2	Q5G95_H9IV1	Q5g95 human immu
101	48	82.8	71	2	Q5G96_H9IV1	Q5g96 human immu
102	48	82.8	71	2	Q5G98_H9IV1	Q5g98 human immu
103	48	82.8	71	2	Q5G99_H9IV1	Q5g99 human immu
104	48	82.8	71	2	Q5UGA0_H9IV1	Q5uga0 human immu

105	48	82.8	71	2	Q5UGA1_9HIV1	Q5UGA1 human	immun	178	48	82.8	71	2	Q66MP3_9HIV1	Q66MP3 human	immun
106	48	82.8	71	2	Q5UGA2_9HIV1	Q5UGA2 human	immun	179	48	82.8	71	2	Q66MP6_9HIV1	Q66MP6 human	immun
107	48	82.8	71	2	Q5UGA3_9HIV1	Q5UGA3 human	immun	180	48	82.8	71	2	Q66MP9_9HIV1	Q66MP9 human	immun
108	48	82.8	71	2	Q5UGA4_9HIV1	Q5UGA4 human	immun	181	48	82.8	71	2	Q66MQ3_9HIV1	Q66MQ3 human	immun
109	48	82.8	71	2	Q5UGA5_9HIV1	Q5UGA5 human	immun	182	48	82.8	71	2	Q66MQ7_9HIV1	Q66MQ7 human	immun
110	48	82.8	71	2	Q5UGA6_9HIV1	Q5UGA6 human	immun	183	48	82.8	71	2	Q66MQ5_9HIV1	Q66MQ5 human	immun
111	48	82.8	71	2	Q5UGA8_9HIV1	Q5UGA8 human	immun	184	48	82.8	71	2	Q66MQ7_9HIV1	Q66MQ7 human	immun
112	48	82.8	71	2	Q5UGA9_9HIV1	Q5UGA9 human	immun	185	48	82.8	71	2	Q66MR1_9HIV1	Q66MR1 human	immun
113	48	82.8	71	2	Q5UGB0_9HIV1	Q5UGB0 human	immun	186	48	82.8	71	2	Q66MR5_9HIV1	Q66MR5 human	immun
114	48	82.8	71	2	Q5UGB1_9HIV1	Q5UGB1 human	immun	187	48	82.8	71	2	Q66MR7_9HIV1	Q66MR7 human	immun
115	48	82.8	71	2	Q5UGB2_9HIV1	Q5UGB2 human	immun	188	48	82.8	71	2	Q66MR9_9HIV1	Q66MR9 human	immun
116	48	82.8	71	2	Q5UGB3_9HIV1	Q5UGB3 human	immun	189	48	82.8	71	2	Q66MS1_9HIV1	Q66MS1 human	immun
117	48	82.8	71	2	Q5UGB4_9HIV1	Q5UGB4 human	immun	190	48	82.8	71	2	Q66MS3_9HIV1	Q66MS3 human	immun
118	48	82.8	71	2	Q5UGB5_9HIV1	Q5UGB5 human	immun	191	48	82.8	71	2	Q66MS5_9HIV1	Q66MS5 human	immun
119	48	82.8	71	2	Q5UGB6_9HIV1	Q5UGB6 human	immun	192	48	82.8	71	2	Q66MS7_9HIV1	Q66MS7 human	immun
120	48	82.8	71	2	Q5UGB7_9HIV1	Q5UGB7 human	immun	193	48	82.8	71	2	Q66MS9_9HIV1	Q66MS9 human	immun
121	48	82.8	71	2	Q5UGB8_9HIV1	Q5UGB8 human	immun	194	48	82.8	71	2	Q66MT1_9HIV1	Q66MT1 human	immun
122	48	82.8	71	2	Q5UGB9_9HIV1	Q5UGB9 human	immun	195	48	82.8	71	2	Q71875_9HIV1	Q71875 human	immun
123	48	82.8	71	2	Q5UGC0_9HIV1	Q5UGC0 human	immun	196	48	82.8	71	2	Q71886_9HIV1	Q71886 human	immun
124	48	82.8	71	2	Q5UGC1_9HIV1	Q5UGC1 human	immun	197	48	82.8	71	2	Q71891_9HIV1	Q71891 human	immun
125	48	82.8	71	2	Q5UGC2_9HIV1	Q5UGC2 human	immun	198	48	82.8	71	2	Q71898_9HIV1	Q71898 human	immun
126	48	82.8	71	2	Q5UGC3_9HIV1	Q5UGC3 human	immun	199	48	82.8	71	2	Q71905_9HIV1	Q71905 human	immun
127	48	82.8	71	2	Q5UGC4_9HIV1	Q5UGC4 human	immun	200	48	82.8	71	2	Q71912_9HIV1	Q71912 human	immun
128	48	82.8	71	2	Q5UGC5_9HIV1	Q5UGC5 human	immun	201	48	82.8	71	2	Q71919_9HIV1	Q71919 human	immun
129	48	82.8	71	2	Q5UGC6_9HIV1	Q5UGC6 human	immun	202	48	82.8	71	2	Q71932_9HIV1	Q71932 human	immun
130	48	82.8	71	2	Q5UGC7_9HIV1	Q5UGC7 human	immun	203	48	82.8	71	2	Q71939_9HIV1	Q71939 human	immun
131	48	82.8	71	2	Q5UGC8_9HIV1	Q5UGC8 human	immun	204	48	82.8	71	2	Q71945_9HIV1	Q71945 human	immun
132	48	82.8	71	2	Q5UGD0_9HIV1	Q5UGD0 human	immun	205	48	82.8	71	2	Q71968_9HIV1	Q71968 human	immun
133	48	82.8	71	2	Q5UGD1_9HIV1	Q5UGD1 human	immun	206	48	82.8	71	2	Q71974_9HIV1	Q71974 human	immun
134	48	82.8	71	2	Q5UGD2_9HIV1	Q5UGD2 human	immun	207	48	82.8	71	2	Q71980_9HIV1	Q71980 human	immun
135	48	82.8	71	2	Q5UGD3_9HIV1	Q5UGD3 human	immun	208	48	82.8	71	2	Q71987_9HIV1	Q71987 human	immun
136	48	82.8	71	2	Q5UGD4_9HIV1	Q5UGD4 human	immun	209	48	82.8	71	2	Q71993_9HIV1	Q71993 human	immun
137	48	82.8	71	2	Q5UGD5_9HIV1	Q5UGD5 human	immun	210	48	82.8	71	2	Q72000_9HIV1	Q72000 human	immun
138	48	82.8	71	2	Q5UGD6_9HIV1	Q5UGD6 human	immun	211	48	82.8	71	2	Q72005_9HIV1	Q72005 human	immun
139	48	82.8	71	2	Q5UGD7_9HIV1	Q5UGD7 human	immun	212	48	82.8	71	2	Q72009_9HIV1	Q72009 human	immun
140	48	82.8	71	2	Q5UGD8_9HIV1	Q5UGD8 human	immun	213	48	82.8	71	2	Q86006_9HIV1	Q86006 human	immun
141	48	82.8	71	2	Q5UGD9_9HIV1	Q5UGD9 human	immun	214	48	82.8	71	2	Q88462_9HIV1	Q88462 human	immun
142	48	82.8	71	2	Q5UGE0_9HIV1	Q5UGE0 human	immun	215	48	82.8	71	2	Q8AIK0_9HIV1	Q8AIK0 human	immun
143	48	82.8	71	2	Q5UGB1_9HIV1	Q5UGB1 human	immun	216	48	82.8	71	2	Q8AIK1_9HIV1	Q8AIK1 human	immun
144	48	82.8	71	2	Q5UGB2_9HIV1	Q5UGB2 human	immun	217	48	82.8	71	2	Q8AIK2_9HIV1	Q8AIK2 human	immun
145	48	82.8	71	2	Q5UGB3_9HIV1	Q5UGB3 human	immun	218	48	82.8	71	2	Q8AIK3_9HIV1	Q8AIK3 human	immun
146	48	82.8	71	2	Q5UGB4_9HIV1	Q5UGB4 human	immun	219	48	82.8	71	2	Q8AIK4_9HIV1	Q8AIK4 human	immun
147	48	82.8	71	2	Q5UGB5_9HIV1	Q5UGB5 human	immun	220	48	82.8	71	2	Q8AIK5_9HIV1	Q8AIK5 human	immun
148	48	82.8	71	2	Q5UGB6_9HIV1	Q5UGB6 human	immun	221	48	82.8	71	2	Q8AIK6_9HIV1	Q8AIK6 human	immun
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153	48	82.8	71	2	Q5UGF1_9HIV1	Q5UGF1 human	immun	226	48	82.8	71	2	Q8AIL4_9HIV1	Q8AIL4 human	immun
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156	48	82.8	71	2	Q5UGF4_9HIV1	Q5UGF4 human	immun	229	48	82.8	71	2	Q8ATV3_9HIV1	Q8ATV3 human	immun
157	48	82.8	71	2	Q5UGF5_9HIV1	Q5UGF5 human	immun	230	48	82.8	71	2	Q8ATV4_9HIV1	Q8ATV4 human	immun
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160	48	82.8	71	2	Q5UGF9_9HIV1	Q5UGF9 human	immun	233	48	82.8	71	2	Q8ATV9_9HIV1	Q8ATV9 human	immun
161	48	82.8	71	2	Q5UGG0_9HIV1	Q5UGG0 human	immun	234	48	82.8	71	2	Q8ATW1_9HIV1	Q8ATW1 human	immun
162	48	82.8	71	2	Q5UGG1_9HIV1	Q5UGG1 human	immun	235	48	82.8	71	2	Q8ATW2_9HIV1	Q8ATW2 human	immun
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168	48	82.8	71	2	Q5UGG7_9HIV1	Q5UGG7 human	immun	241	48	82.8	71	2	Q8ATX2_9HIV1	Q8ATX2 human	immun
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170	48	82.8	71	2	Q5UGH3_9HIV1	Q5UGH3 human	immun	243	48	82.8	71	2	Q8ATX5_9HIV1	Q8ATX5 human	immun
171	48	82.8	71	2	Q5UGH4_9HIV1	Q5UGH4 human	immun	244	48	82.8	71	2	Q8ATX6_9HIV1	Q8ATX6 human	immun
172	48	82.8	71	2	Q5UGH5_9HIV1	Q5UGH5 human	immun	245	48	82.8	71	2	Q8ATX7_9HIV1	Q8ATX7 human	immun
173	48	82.8	71	2	Q5UGH6_9HIV1	Q5UGH6 human	immun	246	48	82.8	71	2	Q8ATY2_9HIV1	Q8ATY2 human	immun
174	48	82.8	71	2	Q5UGH7_9HIV1	Q5UGH7 human	immun	247	48	82.8	71	2	Q8ATY3_9HIV1	Q8ATY3 human	immun
175	48	82.8	71	2	Q5UGH8_9HIV1	Q5UGH8 human	immun	248	48	82.8	71	2	Q8ATY5_9HIV1	Q8ATY5 human	immun
176	48	82.8	71	2	Q5UGH9_9HIV1	Q5UGH9 human	immun	249	48	82.8	71	2	Q8ATY6_9HIV1	Q8ATY6 human	immun
177	48	82.8	71	2	Q5UGI0_9HIV1	Q5UGI0 human	immun	250	48	82.8	71	2	Q8ATY7_9HIV1	Q8ATY7 human	immun

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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:33:59 ; Search time 29.3333 Seconds
(without alignments)
31.003 Million cell updates/sec

Title: US-10-509-620-13

Perfect score: 58

Sequence: 1 YGRRRRRRRR 11

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	52	89.7	11	2	US-09-775-052A-7
5	51	87.9	517	1	US-08-467-568-10
6	51	87.9	517	1	US-09-030-582-10
7	51	87.9	520	1	US-08-334-698-4
8	51	87.9	520	1	US-08-228-332-4
9	51	87.9	520	1	US-08-468-939-4
10	51	87.9	520	1	US-08-406-855A-4
11	51	87.9	520	1	US-08-722-190-4
12	51	87.9	520	2	US-08-244-354-4
13	51	87.9	520	2	US-09-206-899-4
14	51	87.9	520	2	US-09-444-783-4
15	51	87.9	520	2	US-09-688-415-4
16	51	87.9	520	2	US-09-444-783-4
17	51	87.9	520	4	PCT-US95-04203-4
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19	49	84.5	12	1	US-08-378-709-31
20	49	84.5	197	2	US-08-252-991A-30392
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22	48	82.8	11	1	US-08-924-695A-54
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24	48	82.8	11	2	US-09-296-089-37
25	48	82.8	11	2	US-09-837-863-2
26	48	82.8	11	2	US-09-660-742-1
27	48	82.8	11	2	US-09-434-345-2

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82	48	82.8	17	1	US-08-902-623-7	Sequence 7, Appl
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99	48	82.8	20	2	US-09-667-365-1944	Sequence 1944, Ap
100	48	82.8	20	2	US-09-667-365-1947	Sequence 1947, Ap

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103	48	82.8	21	1	US-08-450-098-50	Sequence 50, Appl	176	48	82.8	36	2	US-09-409-624-2	Sequence 2, Appl
104	48	82.8	21	1	US-08-451-233-50	Sequence 50, Appl	177	48	82.8	36	2	US-09-451-067-55	Sequence 55, Appl
105	48	82.8	21	1	US-08-450-236-50	Sequence 50, Appl	178	48	82.8	36	2	US-09-557-465D-6	Sequence 6, Appl
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115	48	82.8	22	2	US-08-235-403-3	Sequence 3, Appl	188	48	82.8	72	1	US-07-910-867B-2	Sequence 2, Appl
116	48	82.8	22	2	US-09-780-070-34	Sequence 34, Appl	189	48	82.8	72	1	US-08-893-853-1	Sequence 1, Appl
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118	48	82.8	22	2	US-09-545-433-15	Sequence 15, Appl	191	48	82.8	72	2	US-09-113-921-1	Sequence 1, Appl
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122	48	82.8	22	2	US-09-667-365-1937	Sequence 1937, Ap	195	48	82.8	72	2	US-08-902-572-12	Sequence 12, Appl
123	48	82.8	22	2	US-09-667-365-1938	Sequence 1938, Ap	196	48	82.8	72	2	US-10-114-176-15	Sequence 15, Appl
124	48	82.8	22	2	US-09-667-365-1948	Sequence 1948, Ap	197	48	82.8	72	2	US-09-451-067-1	Sequence 1, Appl
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126	48	82.8	23	2	US-09-780-070-36	Sequence 36, Appl	199	48	82.8	86	1	US-08-053-079A-15	Sequence 15, Appl
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135	48	82.8	25	1	US-08-450-098-53	Sequence 53, Appl	208	48	82.8	86	2	US-09-099-333-1	Sequence 1, Appl
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142	48	82.8	26	1	US-08-450-098-48	Sequence 48, Appl	215	48	82.8	86	2	US-10-259-275-19	Sequence 19, Appl
143	48	82.8	26	1	US-08-451-233-48	Sequence 48, Appl	216	48	82.8	86	4	PCT-US92-10770-1	Sequence 1, Appl
144	48	82.8	26	1	US-08-450-236-48	Sequence 48, Appl	217	48	82.8	86	4	PCT-US95-06077-2	Sequence 2, Appl
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146	48	82.8	26	2	US-08-902-572-29	Sequence 29, Appl	219	48	82.8	102	2	US-09-475-515-90	Sequence 90, Appl
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148	48	82.8	26	4	PCT-US95-06077-24	Sequence 24, Appl	221	48	82.8	134	1	US-08-450-246-38	Sequence 38, Appl
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151	48	82.8	27	1	US-08-924-695A-88	Sequence 88, Appl	224	48	82.8	134	1	US-08-450-236-38	Sequence 38, Appl
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153	48	82.8	29	1	US-09-072-429-9	Sequence 9, Appl	226	48	82.8	134	2	US-09-645-415A-58	Sequence 58, Appl
154	48	82.8	29	1	US-09-411-706-5	Sequence 5, Appl	227	48	82.8	140	2	US-09-645-415A-60	Sequence 60, Appl
155	48	82.8	29	2	US-09-935-032-5	Sequence 5, Appl	228	48	82.8	143	1	US-08-450-257-63	Sequence 63, Appl
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169	48	82.8	36	1	US-08-450-098-2	Sequence 2, Appl	242	48	82.8	157	1	US-08-450-098-60	Sequence 60, Appl
170	48	82.8	36	1	US-08-451-233-2	Sequence 2, Appl	243	48	82.8	157	1	US-08-451-233-60	Sequence 60, Appl
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OM protein - protein search, using sw model

Run on: March 15, 2006, 14:53:38 ; Search time 99 Seconds
(without alignments)
46.425 Million cell updates/sec

Title: US-10-509-620-13
Perfect score: 58
Sequence: 1 YGRRRRRRR 11

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications AA Main.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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4	52	89.7	11	4	US-10-229-915-25
5	52	89.7	11	4	US-10-136-738-6
6	52	89.7	11	4	US-10-405-339-17
7	52	89.7	11	4	US-10-688-299-6
8	52	89.7	11	5	US-10-509-620-1
9	51	87.9	10	3	US-09-933-780C-22
10	51	87.9	12	5	US-10-699-562-49
11	51	87.9	13	4	US-10-061-607A-5
12	51	87.9	13	4	US-10-165-607A-16
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OM protein - protein search, using sw model

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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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9	52	89.7	22	6	US-10-903-612B-69
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48	82.8	11	6	US-10-517-710-24	Sequence 24, Appl
48	82.8	11	7	US-11-111-463-7	Sequence 7, Appl
48	82.8	11	7	US-11-045-024-10430	Sequence 10430, A
48	82.8	11	7	US-11-045-024-12265	Sequence 12265, A
48	82.8	11	7	US-11-154-257-4	Sequence 4, Appl
48	82.8	11	7	US-11-102-883-39	Sequence 39, Appl
48	82.8	11	7	US-11-041-103-1	Sequence 1, Appl
48	82.8	11	7	US-11-141-725-6	Sequence 6, Appl
48	82.8	11	7	US-11-059-292A-7	Sequence 7, Appl
48	82.8	11	7	US-11-200-389-18	Sequence 18, Appl
48	82.8	12	7	US-11-102-883-44	Sequence 44, Appl
48	82.8	12	7	US-11-026-403-1	Sequence 1, Appl
48	82.8	13	6	US-10-485-788A-494	Sequence 494, App
48	82.8	13	7	US-11-102-883-10	Sequence 10, Appl
48	82.8	13	7	US-11-150-756-13	Sequence 13, Appl
48	82.8	14	7	US-11-019-894A-5	Sequence 5, Appl
48	82.8	15	7	US-11-058-717-10	Sequence 10, Appl
48	82.8	15	7	US-11-042-814-28	Sequence 28, Appl
48	82.8	15	7	US-11-200-389-19	Sequence 19, Appl
48	82.8	16	6	US-10-877-961B-110	Sequence 110, App
48	82.8	16	6	US-10-913-711B-9	Sequence 9, Appl
48	82.8	16	7	US-11-155-845-73	Sequence 73, Appl
48	82.8	16	7	US-11-078-256-306	Sequence 306, App
48	82.8	18	6	US-10-877-961B-106	Sequence 106, App
48	82.8	18	6	US-10-913-711B-5	Sequence 5, Appl
48	82.8	19	6	US-10-877-961B-105	Sequence 105, App
48	82.8	19	6	US-10-913-711B-4	Sequence 4, Appl
48	82.8	20	7	US-11-026-403-74	Sequence 74, Appl
48	82.8	21	6	US-10-485-788A-491	Sequence 491, App
48	82.8	21	6	US-10-485-788A-492	Sequence 492, App
48	82.8	21	6	US-10-485-788A-493	Sequence 493, App
48	82.8	21	6	US-10-903-612B-73	Sequence 73, Appl
48	82.8	22	6	US-10-903-612B-79	Sequence 79, Appl
48	82.8	24	6	US-10-903-612B-74	Sequence 74, Appl
48	82.8	24	6	US-10-903-612B-75	Sequence 75, Appl
48	82.8	24	6	US-10-903-612B-76	Sequence 76, Appl
48	82.8	24	6	US-10-903-612B-77	Sequence 77, Appl
48	82.8	24	6	US-10-903-612B-78	Sequence 78, Appl
48	82.8	25	6	US-10-903-612B-80	Sequence 80, Appl
48	82.8	25	6	US-10-903-612B-81	Sequence 81, Appl
48	82.8	25	6	US-10-903-612B-82	Sequence 82, Appl
48	82.8	25	6	US-10-903-612B-83	Sequence 83, Appl
48	82.8	25	6	US-10-903-612B-84	Sequence 84, Appl
48	82.8	25	7	US-11-026-403-75	Sequence 75, Appl
48	82.8	25	7	US-11-049-636-17	Sequence 17, Appl
48	82.8	25	7	US-11-223-699A-42	Sequence 42, Appl
48	82.8	25	7	US-11-121-566A-42	Sequence 42, Appl
48	82.8	26	6	US-10-508-504-1	Sequence 1, Appl
48	82.8	26	7	US-11-044-677-2	Sequence 2, Appl
48	82.8	26	7	US-11-026-403-76	Sequence 76, Appl
48	82.8	29	7	US-11-059-292A-8	Sequence 8, Appl
48	82.8	29	7	US-11-078-256-304	Sequence 304, App
48	82.8	29	7	US-11-078-256-305	Sequence 305, App
48	82.8	30	7	US-11-059-292A-9	Sequence 9, Appl
48	82.8	37	7	US-11-049-636-20	Sequence 20, Appl
48	82.8	72	7	US-11-176-868-15	Sequence 15, Appl
48	82.8	72	7	US-11-009-063-27	Sequence 27, Appl
48	82.8	72	7	US-11-009-063-32	Sequence 32, Appl
48	82.8	95	7	US-11-119-212-11	Sequence 11, Appl

99	48	82.8	95	7	US-11-119-212-23	Sequence 23, Appl	172	45	77.6	21	6	US-10-903-612B-12	Sequence 12, Appl
100	48	82.8	98	7	US-11-082-381-11	Sequence 11, Appl	173	45	77.6	21	6	US-10-903-612B-32	Sequence 32, Appl
101	48	82.8	101	7	US-11-082-381-1	Sequence 1, Appl	174	45	77.6	21	6	US-10-903-612B-33	Sequence 33, Appl
102	48	82.8	102	7	US-11-044-842A-43	Sequence 43, Appl	175	45	77.6	21	6	US-10-903-612B-34	Sequence 34, Appl
103	48	82.8	134	7	US-11-082-544-58	Sequence 58, Appl	176	45	77.6	21	6	US-10-903-612B-35	Sequence 35, Appl
104	48	82.8	140	7	US-11-082-544-60	Sequence 60, Appl	177	45	77.6	21	6	US-10-903-612B-36	Sequence 36, Appl
105	48	82.8	143	7	US-11-102-883-12	Sequence 12, Appl	178	45	77.6	21	6	US-10-903-612B-91	Sequence 91, Appl
106	48	82.8	263	7	US-11-102-883-36	Sequence 36, Appl	179	45	77.6	22	6	US-10-903-612B-14	Sequence 14, Appl
107	48	82.8	274	7	US-11-102-883-34	Sequence 34, Appl	180	45	77.6	22	6	US-10-903-612B-15	Sequence 15, Appl
108	48	82.8	283	7	US-11-102-883-32	Sequence 32, Appl	181	45	77.6	22	6	US-10-903-612B-16	Sequence 16, Appl
109	48	82.8	289	7	US-11-102-883-2	Sequence 2, Appl	182	45	77.6	22	6	US-10-903-612B-17	Sequence 17, Appl
110	48	82.8	289	7	US-11-102-883-26	Sequence 26, Appl	183	45	77.6	22	6	US-10-903-612B-18	Sequence 18, Appl
111	48	82.8	291	7	US-11-102-883-22	Sequence 22, Appl	184	45	77.6	22	7	US-11-133-804-5	Sequence 5, Appl
112	48	82.8	292	7	US-11-102-883-24	Sequence 24, Appl	185	45	77.6	22	7	US-11-133-804-9	Sequence 9, Appl
113	48	82.8	294	7	US-11-102-883-30	Sequence 30, Appl	186	45	77.6	22	7	US-11-133-804-53	Sequence 53, Appl
114	48	82.8	300	7	US-11-102-883-6	Sequence 6, Appl	187	45	77.6	23	6	US-10-903-612B-20	Sequence 20, Appl
115	48	82.8	302	7	US-11-119-212-13	Sequence 13, Appl	188	45	77.6	23	6	US-10-903-612B-21	Sequence 21, Appl
116	48	82.8	302	7	US-11-119-212-25	Sequence 25, Appl	189	45	77.6	23	6	US-10-903-612B-22	Sequence 22, Appl
117	48	82.8	347	7	US-11-102-883-4	Sequence 4, Appl	190	45	77.6	23	6	US-10-903-612B-23	Sequence 23, Appl
118	48	82.8	351	7	US-11-102-883-28	Sequence 28, Appl	191	45	77.6	23	6	US-10-903-612B-24	Sequence 24, Appl
119	48	82.8	362	7	US-11-102-883-8	Sequence 8, Appl	192	45	77.6	23	6	US-10-903-612B-86	Sequence 86, Appl
120	48	82.8	411	7	US-11-119-212-17	Sequence 17, Appl	193	45	77.6	23	6	US-10-903-612B-87	Sequence 87, Appl
121	48	82.8	413	7	US-11-119-212-21	Sequence 21, Appl	194	45	77.6	23	6	US-10-903-612B-88	Sequence 88, Appl
122	46	79.3	10	6	US-10-918-638-1	Sequence 1, Appl	195	45	77.6	23	6	US-10-903-612B-89	Sequence 89, Appl
123	46	79.3	136	7	US-11-096-568A-11844	Sequence 11844, A	196	45	77.6	23	6	US-10-903-612B-90	Sequence 90, Appl
124	45	79.3	165	7	US-11-096-568A-116	Sequence 116, App	197	45	77.6	23	7	US-11-133-804-7	Sequence 7, Appl
125	45	77.6	9	6	US-10-985-426-7	Sequence 7, Appl	198	45	77.6	23	7	US-11-133-804-19	Sequence 19, Appl
126	45	77.6	9	7	US-11-016-542-20	Sequence 20, Appl	199	45	77.6	23	7	US-11-133-804-52	Sequence 52, Appl
127	45	77.6	9	7	US-11-133-804-47	Sequence 47, Appl	200	45	77.6	24	6	US-10-903-612B-92	Sequence 92, Appl
128	45	77.6	11	6	US-10-535-780-3	Sequence 3, Appl	201	45	77.6	24	6	US-10-903-612B-93	Sequence 93, Appl
129	45	77.6	12	7	US-11-077-871-22	Sequence 22, Appl	202	45	77.6	24	6	US-10-903-612B-94	Sequence 94, Appl
130	45	77.6	12	7	US-11-136-245A-16	Sequence 16, Appl	203	45	77.6	24	6	US-10-903-612B-95	Sequence 95, Appl
131	45	77.6	12	7	US-11-133-804-80	Sequence 80, Appl	204	45	77.6	24	6	US-10-903-612B-96	Sequence 96, Appl
132	45	77.6	15	6	US-10-903-612B-97	Sequence 97, Appl	205	45	77.6	25	6	US-10-903-612B-37	Sequence 37, Appl
133	45	77.6	16	6	US-10-903-612B-104	Sequence 104, App	206	45	77.6	26	6	US-10-903-612B-43	Sequence 43, Appl
134	45	77.6	16	7	US-11-133-804-79	Sequence 79, Appl	207	45	77.6	27	6	US-10-903-612B-38	Sequence 38, Appl
135	45	77.6	17	6	US-10-903-612B-1	Sequence 1, Appl	208	45	77.6	28	6	US-10-903-612B-39	Sequence 39, Appl
136	45	77.6	17	6	US-10-903-612B-25	Sequence 25, Appl	209	45	77.6	28	6	US-10-903-612B-40	Sequence 40, Appl
137	45	77.6	17	7	US-11-133-804-6	Sequence 6, Appl	210	45	77.6	28	6	US-10-903-612B-41	Sequence 41, Appl
138	45	77.6	18	6	US-10-903-612B-7	Sequence 7, Appl	211	45	77.6	28	6	US-10-903-612B-42	Sequence 42, Appl
139	45	77.6	18	6	US-10-903-612B-31	Sequence 31, Appl	212	45	77.6	29	6	US-10-903-612B-44	Sequence 44, Appl
140	45	77.6	18	6	US-10-903-612B-98	Sequence 98, Appl	213	45	77.6	29	6	US-10-903-612B-45	Sequence 45, Appl
141	45	77.6	18	6	US-10-903-612B-99	Sequence 99, Appl	214	45	77.6	29	6	US-10-903-612B-46	Sequence 46, Appl
142	45	77.6	18	6	US-10-903-612B-101	Sequence 101, App	215	45	77.6	29	6	US-10-903-612B-47	Sequence 47, Appl
143	45	77.6	18	6	US-10-903-612B-102	Sequence 102, App	216	45	77.6	29	6	US-10-903-612B-48	Sequence 48, Appl
144	45	77.6	18	6	US-10-903-612B-103	Sequence 103, App	217	45	77.6	119	7	US-11-096-568A-12215	Sequence 12215, A
145	45	77.6	19	6	US-10-903-612B-13	Sequence 13, Appl	218	45	77.6	173	7	US-11-096-568A-13697	Sequence 13697, A
146	45	77.6	19	6	US-10-903-612B-106	Sequence 106, App	219	45	77.6	188	7	US-11-096-568A-1380	Sequence 1380, A
147	45	77.6	19	6	US-10-903-612B-106	Sequence 106, App	220	45	77.6	188	7	US-11-096-568A-27099	Sequence 27099, A
148	45	77.6	19	6	US-10-903-612B-107	Sequence 107, App	221	45	77.6	232	7	US-11-096-568A-368	Sequence 368, App
149	45	77.6	19	6	US-10-903-612B-108	Sequence 108, App	222	45	77.6	252	7	US-11-096-568A-27229	Sequence 27229, A
150	45	77.6	19	6	US-10-903-612B-109	Sequence 109, App	223	45	77.6	232	7	US-11-096-568A-24444	Sequence 24444, A
151	45	77.6	19	7	US-11-133-804-3	Sequence 3, Appl	224	45	77.6	329	7	US-11-087-099-11572	Sequence 11572, A
152	45	77.6	19	7	US-11-133-804-8	Sequence 8, Appl	225	45	77.6	376	7	US-11-087-099-6431	Sequence 6431, Ap
153	45	77.6	19	7	US-11-133-804-11	Sequence 11, Appl	226	45	77.6	402	7	US-11-087-099-4448	Sequence 4448, Ap
154	45	77.6	19	7	US-11-133-804-54	Sequence 54, Appl	227	45	77.6	402	7	US-11-096-568A-20589	Sequence 20589, A
155	45	77.6	19	7	US-11-133-804-56	Sequence 56, Appl	228	45	77.6	417	7	US-11-096-568A-27262	Sequence 27262, A
156	45	77.6	20	6	US-10-903-612B-2	Sequence 2, Appl	229	45	77.6	469	7	US-11-087-099-8428	Sequence 8428, Ap
157	45	77.6	20	6	US-10-903-612B-3	Sequence 3, Appl	230	45	77.6	929	7	US-11-087-099-6648	Sequence 6648, Ap
158	45	77.6	20	6	US-10-903-612B-5	Sequence 4, Appl	231	45	77.6	929	7	US-11-087-099-7898	Sequence 7898, Ap
159	45	77.6	20	6	US-10-903-612B-4	Sequence 5, Appl	232	44	75.9	101	7	US-11-047-757-8	Sequence 8, Appl
160	45	77.6	20	6	US-10-903-612B-6	Sequence 6, Appl	233	44	75.9	101	7	US-11-048-490-8	Sequence 8, Appl
161	45	77.6	20	6	US-10-903-612B-19	Sequence 19, Appl	234	44	75.9	138	7	US-11-096-568A-1975	Sequence 1975, Ap
162	45	77.6	20	6	US-10-903-612B-26	Sequence 26, Appl	235	44	75.9	164	7	US-11-096-568A-28566	Sequence 28566, A
163	45	77.6	20	6	US-10-903-612B-27	Sequence 27, Appl	236	44	75.9	176	7	US-11-096-568A-28565	Sequence 28565, A
164	45	77.6	20	6	US-10-903-612B-28	Sequence 28, Appl	237	44	75.9	195	7	US-11-096-568A-21586	Sequence 21586, A
165	45	77.6	20	6	US-10-903-612B-29	Sequence 29, Appl	238	44	75.9	199	7	US-11-096-568A-21584	Sequence 21584, A
166	45	77.6	20	6	US-10-903-612B-30	Sequence 30, Appl	239	44	75.9	201	7	US-11-096-568A-21584	Sequence 21584, A
167	45	77.6	20	6	US-10-903-612B-85	Sequence 85, Appl	240	44	75.9	228	7	US-11-096-568A-16457	Sequence 16457, A
168	45	77.6	21	6	US-10-903-612B-9	Sequence 9, Appl	241	44	75.9	252	7	US-11-096-568A-28165	Sequence 28165, A
169	45	77.6	21	6	US-10-903-612B-8	Sequence 8, Appl	242	44	75.9	494	7	US-11-087-099-3469	Sequence 3469, Ap
170	45	77.6	21	6	US-10-903-612B-10	Sequence 10, Appl	243	43	74.1	10	7	US-11-119-098-8	Sequence 8, Appl
171	45	77.6	21	6	US-10-903-612B-11	Sequence 11, Appl	244	43	74.1	10	7	US-11-045-024-10432	Sequence 10432, A